

All Satellites Frequency List Update

Latest Update by JE9PEL, 16 Nov 2023

Satellite	Number	Uplink	Downlink	Beacon	Mode	Callsign	Active (*)
							Deep space (d)
							Failure (f)
							Inactive (i)
							Non-amateur (n)
							Re-entered (r)
							To be launched (t)
							Unknown (u)
							Weather sat (w)
AO-1 (Oscar-1)	00214	.	.	144. 983	CW		r
AO-2 (Oscar-2)	00305	.	.	144. 983	CW		r
AO-3 (Oscar-3)	01293	145. 975-146. 025	144. 325-144. 375	.	SSB, CW		i
AO-4 (Oscar-4)	01902	432. 145-432. 155	144. 300-144. 310	431. 928	SSB, CW		r
AO-5 (Oscar-5)	04321	.	29. 450	144. 050	CW		i
NOAA-1	04723	.	.	.			w
NOAA-2	06235	.	1. 698GHz	.	HRPT		w
AO-6 (Phase-2A)	06236	145. 900-146. 000	29. 450- 29. 550	435. 100	SSB, CW		i
NOAA-3	06920	.	.	.			w
NOAA-4	07529	.	.	.			w
AO-7 (Phase-2B)	07530	145. 850-145. 950	29. 400- 29. 500	29. 502	A		*
AO-7 (Phase-2B)	07530	432. 125-432. 175	145. 975-145. 925	145. 970	B, C		*
AO-7 (Phase-2B)	07530	.	2304. 100	435. 100	D (RTTY)		i
NOAA-5	09057	.	.	.			w
AO-8 (Phase-2D)	10703	145. 850-145. 900	29. 400- 29. 500	29. 402	SSB, CW		i
AO-8 (Phase-2D)	10703	145. 900-146. 000	435. 200-435. 100	435. 095	SSB, CW		i
NOAA-6	11416	.	.	.			w
NOAA-7	12553	.	.	.			w
UO-9 (UoSAT-1)	12888	.	145. 825/435. 025	2401. 000	SSB, CW		r
NOAA-8	13923	.	.	.			w
— (Phase-3A)		435. 153-435. 277	145. 962-145. 838	145. 810	SSB, CW		f
AO-10 (Phase-3B)	14129	435. 030-146. 180	145. 975-145. 825	145. 810	SSB, CW		i
UO-11 (UoSAT-2)	14781	.	145. 826/435. 025	2401. 500	(V) FM, (S) PSK	UOSAT-2	*
NOAA-9	15427	.	.	.			w
MIR	16609	145. 985	145. 985	.	Packet	ROMIR-1	r
FO-12 (JAS-1)	16909	145. 900-146. 000	435. 900-435. 800	435. 795	SSB, CW		i
FO-12 (JAS-1)	16909	145. 85/87/89/91	435. 910	.	1200bps JAS	8J1JAS	i
NOAA-10	16969	.	.	.			w
NOAA-11	19531	.	.	.			w
RS-12 (COSMOS 2123)	21089	21. 210- 21. 250	29. 410- 29. 450	29. 408	SSB, CW		i
RS-13 (COSMOS 2123)	21089	21. 260- 21. 300	145. 860-145. 900	145. 862	SSB, CW		i
AO-13 (Phase-3C)	19216	435. 423-435. 573	145. 975-145. 825	145. 812	SSB, CW		r
UO-14 (UoSAT-3)	20437	145. 975	435. 070	.	FM		i
UO-15 (UoSAT-4)	20438	.	.	435. 120	CW		r
AO-16 (PACSAT)	20439	145. 920	437. 026	.	FM, USB		i
AO-16 (PACSAT)	20439	145. 920	437. 026	2401. 143	1200bps JAS	PACSAT-11, 12	i
DO-17 (DOVE)	20440	.	145. 825	2401. 220	1200bps AFSK	DOVE-1	i
WO-18 (WEBERSAT)	20441	.	437. 104/437. 075	.	1200bps PSK		i
LO-19 (LUSAT)	20442	145. 840-145. 900	437. 125/437. 150	437. 125	CW carrier	LUSAT-11, 12	i
FO-20 (JAS-1b)	20480	145. 900-146. 000	435. 900-435. 800	435. 795	SSB, CW		i
FO-20 (JAS-1b)	20480	145. 85/87/89/91	435. 910	.	1200bps JAS	8J1JBS	i

AO-21 (RS-14)	21087	.	145. 800	145. 822	1200bps BPSK, CW		i
NOAA-12	21263	.	137. 620/1701. 000	.			w
UO-22 (UoSAT-5)	21575	145. 900/145. 975	435. 120	.	9600bps FSK	UOSAT5-11, 12	i
KO-23 (KITSAT-A)	22077	145. 900/145. 850	435. 175	.	9600bps FSK	HL01-11, 12	i
AO-24 (ARSENE)	22654	.	145. 975	2446. 540	1200bps AFSK		i
NOAA-13	22739	.	.	.			w
KO-25 (KITSAT-B)	22828	145. 980/145. 870	436. 500	.	9600bps FSK	HL02-11, 12	i
IO-26 (ITAMSAT)	22826	145. 875-145. 950	435. 822/435. 867	435. 791	1200bps JAS	ITMSAT-11, 12	i
AO-27 (EYESAT-A)	22825	145. 850	436. 795	.	1200bps AFSK, FM		*
PO-28 (POSAT)	22829	145. 925/145. 975	435. 075/435. 275	.	9600bps FSK	POSAT1-11, 12	i
NOAA-14	23455	.	137. 620/1701. 000	.			w
UPMSat (UPM-LBSat)	23607	.	137. 955	.			u
FO-29 (JAS-2)	24278	145. 900-146. 000	435. 900-435. 800	435. 795	SSB, CW, DigiTalker		*
FO-29 (JAS-2)	24278	145. 85/87/89/91	435. 910	.	1200bps JAS	8J1JCS	i
MO-30 (UNAMSAT-B)	24305	.	435. 138	.	1200bps BPSK		i
NOAA-15	25338	.	137. 620/1702. 500	.			w
TO-31 (TMSAT-1)	25396	145. 925/145. 975	436. 925/436. 900	436. 925	9600bps FSK	TMSAT1-11, 12	i
GO-32 (TechSat-1B)	25397	145. 850/145. 930	435. 225/435. 325	.	9600bps FSK	4XTECH-11, 12	*
SAFIR-S	25399	.	.	2401. 900	9600bps FSK	DP1AIS	i
SO-33 (SEDSAT-1)	25509	.	437. 910	.	9600bps FSK	SEDSAT-1	i
PO-34 (PANSAT)	25520	436. 500	436. 500	.	Spectrum		i
ISS	25544	145. 825	145. 825	.	1200bps AFSK	RS0ISS, ARISS	*
ISS	25544	145. 990	437. 800	.	FM tone 67. 0Hz, 9k6 FSK	NA1SS	*
ISS	25544	145. 990	145. 800	.	SSTV		u
ISS	25544	145. 200	145. 800	.	Voice (Reg 1)	NA1SS	i
ISS	25544	144. 490	145. 800	.	Voice (Reg 2, 3)	NA1SS	i
ISS	25544	435. 050	145. 800	.	FM tone 67. 0Hz		i
ISS	25544	437. 550	437. 550	.	1200bps AFSK	RS0ISS	i
SO-35 (SUNSAT-1)	25636	436. 291	145. 825/2250. 000	.	9600bps FM	SUNSAT-3	i
UO-36 (UoSAT-12)	25693	145. 960	437. 400/437. 025	.	38400bps FSK	U0121-11, 12	i
AO-37 (ASUSAT)	26065	145. 960/145. 980	435. 700	.	9600bps FSK		i
OO-38 (OPAL)	26063	.	437. 100	.	9600bps FSK	KF6RFX	i
WO-39 (JAWSAT)	26061	145. 860	437. 070/437. 175	.	9600bps FSK		i
NOAA-16	26536	.	137. 620/1701. 000	.			w
AO-40 (Phase-3D)	26609	.	.	2401. 323	400bps PSK		i
SO-41 (SaudiSat-1a)	26545	.	436. 775	.	9600bps FSK	SASAT1-11, 12	i
SO-42 (SaudiSat-1b)	26549	.	436. 075	.	9600bps FSK	SASAT2-11, 12	i
SO-43 (Starshine)	26929	.	.	145. 820	9600bps FSK	STRSHN	r
NO-44 (PCSAT-1)	26931	145. 827	145. 827	.	1200bps AFSK	(A) W3ADO-1	*
NO-44 (PCSAT-1)	26931	435. 250	145. 827	.	9600bps FSK	(A) PCSAT-1	i
NO-44 (PCSAT-1)	26931	.	144. 390	.	1200bps AFSK	(B) PCSAT-11	i
NO-44 (PCSAT-1)	26931	.	144. 390	.	9600bps FSK	(B) PCSAT-12	i
NO-45 (Sapphire)	26932	145. 945	437. 100	.	1200bps AFSK	KE6QMD	i
MO-46 (TiungSat)	26548	145. 850/145. 925	437. 325	.	38400bps FSK	MYSAT3-11, 12	i
BO-47 (IDEFIX)	27422	.	145. 840	.	400bps BPSK		i
BO-48 (IDEFIX)	27422	.	435. 270	.	400bps BPSK		i
NOAA-17	27453	.	137. 500/1701. 000	.			w
AO-49 (Rubin-2)	27605	435. 275	145. 825	.	U/1200, D/9600 MSK		i
SO-50 (SaudiSat-1c)	27607	145. 850	436. 795	.	FM tone 67. 0Hz		*
DTUsat-1	27842	.	.	437. 475	2400bps AFSK, CW	OZ2DTU	i
QUAKESAT	27845	.	436. 682	.	9600bps FSK	KD70VB	i
AAUSAT-1	27846	.	437. 450	.	9600bps GMSK		i
CANX-1	27847	.	437. 880	.	1200bps AFSK	VA3SFL	i

AprizeSat-2	28366	.	.	.			u
AprizeSat-1	28372	.	.	.			u
AO-51 (Echo)	28375	145. 920	435. 300	435. 150	FM tone 67. 0Hz		i
AO-51 (Echo)	28375	145. 860/145. 880	2401. 200	435. 150	9600bps FSK	ECHO-11, 12	i
AO-51 (Echo)	28375	1268. 700	435. 150	.	9600bps FSK	ACB-11, 12	i
VO-52 (Hamsat)	28650	435. 220-435. 280	145. 930-145. 870	145. 936	SSB, Carrier	Indian	i
VO-52 (Hamsat)	28650	435. 225-435. 275	145. 925-145. 875	145. 860	SSB, CW	Dutch	i
PCSAT-2		145. 825	435. 275/437. 975	.	9600bps FSK	PC2TLM	r
NOAA-18	28654	.	137. 9125/1707. 000	.			w
UWE-1	28892	.	437. 505	.	1200bps AFSK	DPOUWE	i
XO-53 (SSETI)	28894	.	437. 250	.	9600bps FSK	SSETI1	i
AO-54 (SuitSat-1)	28933	.	145. 990	.	FM		u
CO-55 (CUTE-I)	27844	.	437. 470	436. 8375	1200bps AFSK, CW	JQ1YCY	*
CO-56 (CUTE1. 7)	28941	.	437. 505	437. 382	1200bps AFSK	JQ1YPC	r
CO-56 (CUTE1. 7)	28941	1268. 500	437. 505	437. 382	9600bps GMSK		r
CO-57 (XI-IV)	27848	.	437. 490	436. 8475	1200bps AFSK, CW	JQ1YCW	*
CO-58 (XI-V)	28895	.	437. 345	437. 465	1200bps AFSK, CW	JQ1YGW	*
NCUBE-2	28897	.	437. 305	.	9600bps FSK	LA1CUB	i
AeroCube-1		.	902/928	.	9600bps GFSK		f
HAUSAT-1		.	437. 465	.	1200bps AFSK	D90HP	f
ICEcube-1		.	437. 305	.	9600bps FSK	W2CXM	f
ICEcube-2		.	437. 425	.	9600bps FSK	N2VR	f
ION		.	437. 505	.	1200bps AFSK		f
KUTESat Pathfinder		.	437. 385	.	1200bps AFSK	KCORMW	f
Mea Huaka' i Voyager		.	437. 405/5. 840GHz	.	1200bps AFSK		f
MEROPE		.	145. 980	.	1200bps AFSK	K7MSU-1	f
NCUBE-1		.	437. 305	.	9600bps GMSK	LA1CUB	f
PICPOT		.	437. 485	.	9600bps FSK		f
PICPOT		.	2440. 000	.	10kbit GFSK		f
CP-1		.	436. 845	.	15bps DTMF		f
CP-2		.	437. 325	.	1200bps AFSK		f
RINCON		.	436. 870	437. 345	1200bps AFSK	WA4CEW	f
SACRED		.	436. 870	.	1200bps AFSK	WA4CEW	f
SEEDS		.	437. 485	.	1200bps AFSK	JQ1YGU	f
HO-59 (HITSAT)	29484	145. 980	437. 425	437. 275	1200bps AFSK	JR8YJT	r
GeneSat-1	29655	.	437. 065/437. 100	.	1200bps AFSK	KE7EGC	r
NMARS	29662	148. 975	27. 9652	.	1200bps FM/USB		r
NO-60 (RAFT)	29661	145. 825	145. 825	.	1200bps AFSK	RAFT	r
NO-61 (ANDE)	29664	145. 825	145. 825	.	1200bps AFSK	ANDE-1	r
NO-62 (FCAL)	29667	.	437. 385	437. 385	1200bps AFSK	KD4HBO	r
PO-63 (PehuenSat)	29712	.	145. 825	.	1200bps AFSK	LU1YUC	i
FalconSAT-3	30776	145. 840	435. 103	.	9600bps GMSK	PFS3-11, 12	r
CSTB-1	31122	.	400. 0375	.	1200bps AFSK		i
MAST	31126	.	2400. 000-2483. 500	.	FHSS		i
LIBERTAD-1	31128	.	437. 405	437. 399	1200bps AFSK	5K3L	i
CP-3	31129	.	436. 845	.	1200bps AFSK		i
CAPE-1	31130	.	435. 245	.	1200bps AFSK	K5USL	i
CP-4	31132	.	437. 325	437. 325	1200bps SSB, CW	N6CP	i
AeroCube-2	31133	.	902-928	.	9600bps GFSK		i
CO-65 (CUTE1. 7+APD11)	32785	.	437. 475	437. 275	1200bps AFSK, CW	JQ1YTC	*
CO-65 (CUTE1. 7+APD11)	32785	1267. 600	437. 475	.	9600bps GMSK	JQ1YTC	i
COMPASS-1	32787	.	437. 405	437. 275	1200bps AFSK, CW	DPOCOM	i
AAUSAT-2	32788	.	437. 426	.	1k2 MSK, 9k6 FSK	OZ2CUB	*

DO-64 (DELFI-C3)	32789	.	145. 870	.	1200bps BPSK	DLFIC3	*
DO-64 (DELFI-C3)	32789	435. 530-435. 570	145. 920-145. 880	145. 930	SSB, CW	DLFIC3	i
CANX-2	32790	.	437. 478	.	GMSK	VA3SFL	i
CANX-2	32790	.	2200. 000/2407. 650	.	32Kbps-256Kbps BPSK	VA3SFL	i
CO-66 (SEEDS-II)	32791	.	437. 485	437. 485	1k2AFSK, CW, DigiTalker	JQ1YGU	*
PRISM (HITOMI)	33493	.	437. 425	437. 250	1k2AFSK, 9k6GMSK, CW	JQ1YCX	*
KAGAYAKI	33495	.	437. 375	437. 375	9600bps FSK, CW		i
SOHLA-1 (MAIDO-1)	33496	.	437. 505	437. 505	1200bps AFSK, CW	JL3YUS	i
STARS (KUKAI mother)	33498	.	437. 485	437. 305	1200bps FM, CW	JR5YBN	*
STARS (KUKAI daughter)	33498	.	437. 465	437. 275	1200bps FM, CW	JR5YBO	*
KKS-1 (KISEKI)	33499	.	437. 445	437. 385	1200bps AFSK, CW	JQ1YYY	*
NOAA-19	33591	.	137. 100/1698. 000	.			w
ANUSAT	34808	.	.	137. 400	1200bps AFSK, Carrier		r
PharmaSat-1	35002	.	437. 465	.	1200bps AFSK	KE7EGC	i
CP-6	35003	.	437. 365	437. 365	1200bps AFSK, CW	N6CP	i
HawkSat-1	35004	.	437. 345	.	1200bps AFSK		i
AprizeSat-4	35684	.	.	.			u
AprizeSat-3	35686	.	.	.			u
DRAGONSat (AggieSat-2)	35690	.	436. 250	.	19200bps FSK		r
DRAGONSat (BEVO-1)	35690	.	437. 325	.	9600bps FSK		r
ANDE-2 (Pollux)	35693	.	145. 825	.	1200bps AFSK	POLLUX-1	r
ANDE-2 (Castor)	35694	.	145. 825	.	1200bps AFSK	KD4HBO-1	r
METEOR-M1	35865	.	137. 100/137. 900	2201. 000	72K QPSK, CW		w
SO-67 (SumbandilaSat)	35870	145. 875	435. 345	435. 300	FM tone 233. 6Hz		i
SwissCube-1	35932	.	437. 505	437. 505	1200bps FSK, CW	HB9EG1	i
BEESAT-1	35933	.	436. 000	.	4k8/9k6 GMSK	DPOBEE	i
UME-2	35934	.	437. 385	437. 385	1200bps AFSK, CW	DPOUWF	i
ITUpSat-1	35935	.	437. 325	437. 325	19200bps GFSK, CW	ITUPSAT	*
HO-68 (XW-1, CAS-1)	36122	145. 925-145. 975	435. 765-435. 715	.	SSB inverting	J1SA-11, 12	i
HO-68 (XW-1, CAS-1)	36122	145. 825	435. 675	.	FM tone 67Hz		i
HO-68 (XW-1, CAS-1)	36122	.	.	435. 790	CW	BJ1SA	*
KSAT	36573	.	S, Ku-band	.	10kbps, 1Mbps		n
WASEDA-SAT2	36574	.	437. 485	437. 485	1200bps PCM-FSK, CW	WASEDA	r
Negai	36575	.	437. 305	437. 305	1200bps AFSK, CW	JQ1ZEX	r
UNITEC-1	36578	.	5840. 000	5840. 000	1200bps AFSK, CW	JQ1ZUN	d
StudSat	36796	437. 505	437. 505	437. 861	9600bps FSK, CW		i
TI sat-1	36799	145. 980	437. 305	145. 980	FM, AFSK, PSK, CW	HB9DE	i
RAX-1	37223	.	437. 505	.	9600bps GMSK	RAX-1	i
O/OREOS	37224	.	437. 300	.	1200bps AFSK	KF6JBP	i
FO-69 (FASTRAC-1)	37227	145. 825	437. 345	.	1200bps AFSK	FAST1	i
FO-69 (FASTRAC-1)	37227	145. 980	437. 345	.	9600bps FSK	FAST1	i
NanoSail-D2	37361	.	437. 270	.	1200bps AFSK	KE7EGC	r
FO-70 (FASTRAC-2)	37380	435. 025	145. 825	.	1200bps AFSK	FAST2	i
FO-70 (FASTRAC-2)	37380	437. 345	145. 825	.	9600bps FSK	FAST2	i
CAERUS		.	437. 600	.	1200bps AFSK	KJ6FIX-1	u
E1P (Explorer-1 Prime)		437. 305	437. 505	.	1200bps AFSK		f
Hermes		.	437. 425	.	1200bps AFSK		f
KySat-1		145. 850	436. 790	.	1200bps AFSK		f
ARISSat-1 (SuitSat-2)	37772	435. 742-435. 758	145. 938-145. 922	145. 919	FM, linear inverting		r
ARISSat-1 (SuitSat-2)	37772	.	145. 950	145. 950	FM, VOICE/SSTV, Telemetry		r
ARISSat-1 (SuitSat-2)	37772	.	145. 9182	145. 919	BPSK-1000/CW	RS01S	r
ARISSat-1 (SuitSat-2)	37772	.	145. 939	145. 939	BPSK-400/CW		r
RASAT	37791	.	437. 400	.	9600bps FSK	RASAT0-11, 12	i

AprizeSat-5	37792	.	.	.			u
AprizeSat-6	37793	.	400. 591	.	9600bps GMSK		u
Jugnu	37839	.	437. 505	437. 2759	CW		i
SRMSAT	37841	145. 900	437. 500	437. 425	CW		i
RAX-2	37853	.	437. 345	.	9600bps GMSK		i
AO-71 (AubieSat-1)	37854	.	437. 475	.	1200bps AFSK, CW		i
M-Cubed/EIP-U2	37855	437. 305	437. 485/437. 493	.	1k2AFSK_USB/9k6GMSK	K7MSU-1	*
LARES	38077	.	.	.			n
ALMASat-1	38078	.	437. 465/2407. 850	.	1200bps FSK	ALMASAT	r
E-ST@R	38079	.	437. 445	.	1200bps AFSK	E-STAR-I	i
Goliat	38080	.	437. 485	437. 485	1200bps AFSK, CW	Y07MJF	i
MO-72 (MaSat-1)	38081	.	437. 345	437. 345	625/1250bps 2GFSK, CW	HA5MASAT	r
Xatcobeo	38082	.	437. 365/145. 940	437. 365	1200bps FFSK, SSR, CW		r
PW-Sat1	38083	435. 020	145. 900	145. 902	1200bps BPSK, FM, CW	VOID	i
ROBUSTA-1A	38084	.	437. 325	.	1200bps AFSK		r
UNICubeSAT	38085	.	437. 305	.	9600bps FSK		i
HORYU-2	38340	.	437. 375	437. 375	1200bps FSK, CW	JG6YBW	i
PROITERES	38756	.	437. 485	437. 485	1200bps AFSK, CW	JL3YZL	i
AENEAS	38760	.	437. 600	437. 600	1200bps AFSK	KE6YFA-1	i
CSSWE	38761	.	437. 349	.	9600bps GMSK	CSSWE7	i
CXBN	38762	.	437. 525	.	9600bps GFSK		i
CP-5	38763	.	437. 405	437. 405	1200bps AFSK, CW	CP5	i
RAIKO	38852	.	2. 285GHz, 13GHz	2285. 000	38. 4Kbps-500Kbps BPSK		n
FITSAT-1	38853	.	437. 445/5. 84GHz	437. 250	1200bps/115. 2Kbps	JG6YEW	r
TechEdSat-1	38854	.	437. 465	437. 465	1200bps FM, CW	KJ6TV0	r
F-1	38855	.	145. 980	437. 485	1200bps FM, AFSK, CW	XV1VN	r
WE_WISH	38856	.	437. 515	437. 505	2400bps FM, SSTV, CW	JQ1ZIJ	r
AAUSAT-3	39087	.	437. 425	437. 425	4800bps FSK, CW	OZ3CUB	i
STRaND-1	39090	.	437. 568	.	9600bps GMSK		*
BRITE-AUSTRIA (CanX-3B)	39091	.	145. 890/437. 365/2234. 400		32Kbps-256Kbps BPSK		i
UniBRITE (CanX-3A)	39092	.	145. 890	145. 890	CW		i
Bion-M1	39130	.	.	.			n
OSSI-1	39131	.	437. 525	145. 980	1200bps AFSK, CW		u
AIST-2 (RS-43)	39133	.	435. 215	435. 265	FM, CW		i
SOMP	39134	.	437. 485	437. 503	1200bps AFSK, CW	DP0TUD	*
BEESAT-3	39135	.	435. 950	435. 950	4800bps GMSK, CW	DPOBEG	i
BEESAT-2	39136	.	435. 950	435. 950	4800bps GMSK, CW	DPOBEF	i
BELL (PhoneSat1)	39142	.	2401. 200-2431. 200	437. 425	1200bps AFSK	KJ6KRW-1	r
Dove-1, 2	39143	.	145. 825	2420. 000	1200bps AFSK		r
TechEdSat-2	39143	.	.	.			r
ALEXANDER (PhoneSat2)	39144	.	2401. 200-2431. 200	437. 425	1200bps AFSK	KJ6KRW	r
GRAHAM (PhoneSat1)	39146	.	2401. 200-2431. 200	437. 425	1200bps AFSK	KJ6KRW-2	r
NEE-01 Pegaso	39151	.	910. 000 (bandwidth 25MHz)		AMTV-CW, SSTV		n
TURKSAT-3USAT	39152	145. 940-145. 990	435. 200-435. 250	437. 225	SSB, CW		i
CubeBug-1	39153	.	437. 445	437. 438	1200bps AFSK	CUBEB1	i
ESTCube-1	39161	.	437. 505/2401. 250	437. 254	9600bps GFSK, CW	ES5E-11, /S	i
CUSat-1	39266	.	437. 405	.	1200bps AFSK	BOTTOM	i
DANDE	39267	.	436. 750	.	9600bps GMSK	DANDE-2	i
CUSat-2	39271	.	437. 485	.	1200bps AFSK	WG2XTI	i
PhoneSat2. 4	39381	.	2401. 200-2431. 200	437. 425	1200bps AFSK	KJ6KRW	r
CAPE-2 (LO-75)	39382	145. 825	145. 822/437. 325	145. 825	1200bps AFSK, CW, Voice	W5UL-15	r
DragonSat-1	39383	.	145. 870	.	9600bps FSK		r
KySat-2	39384	.	437. 405	437. 402	9600bps FSK	KK4AJJ	r

TJ3Sat	39385	.	.	437. 320	CW		r
NPS-SCAT	39389	.	2401. 200–2447. 600	437. 525	1200bps AFSK, CW	K6NPS	i
COPPER	39395	.	2403. 000–2403. 400	437. 290	9600bps FSK		r
Black Knight-1	39398	.	437. 345	.			r
Trailblazer-1	39400	.	437. 425	.	9600bps FSK		r
SwampSat	39402	.	437. 385	.	9600bps FSK		r
Ho'oponopono-2	39403	.	427. 220	.	9600bps FSK/GMSK		i
ChargerSat-1	39405	.	437. 405	.	9600bps FSK		r
Vermont Lunar	39407	.	437. 305	.	9600bps FSK	W1VTC2	r
ArduSat-1	39412	.	437. 325	437. 000	9600bps MSK, CW	WG9XFC-1	r
PicoDragon	39413	.	437. xxx	437. 250	1200bps AFSK, CW	XV9PID	r
ArduSat-X	39414	.	437. 345	437. 007	9600bps MSK, CW	WG9XFC-X	r
TechEdSat-3	39415	.	437. 465	437. 465	1200bps FM, CW		r
AprizeSat-7	39416	.	400. 585	.	9600bps GMSK		u
ZACube-1	39417	145. 860	437. 355	14. 099	1k2AFSK/ 9k6 GMSK, CW	123456	*
OPTOS	39420	.	.	.			n
UniSat-5	39421	.	437. 175/437. 425	.	9600bps GMSK		i
WNISAT-1	39423	.	467. 674	.			n
AprizeSat-8	39425	.	400. 553	.	9600bps GMSK		u
Triton-1	39427	435. xxx	145. 818/ 145. 823	2408. 000	1200bps RC-BPSK, CW	TRIVO, TRIV1	*
Delfi-n3Xt	39428	.	145. 870/145. 930	2405. 000	2400bps BPSK, MSK		i
Delfi-n3Xt	39428	435. 530–435. 570	145. 880–145. 920	.	SSB		i
Dove-3	39429	.	.	.			n
GOMX-1	39430	.	437. 250	437. 250	1k2/2k4/ 4k8 /9k6GMSK, CW		*
BRITE-PL	39431	.	437. 365/2234. 400	145. 890	32Kbps–256Kbps		i
ICUBE-1	39432	435. 060	145. 947	.	1200bps BPSK/FM-DSB		i
Humsat-D	39433	.	437. 325 /437. 525	437. 325	1200 bps MSK, CW	HUMDE	*
Dove-4	39434	.	.	.			n
Wren	39435	.	437. 405	437. 405	1200bps FSK, CW		i
Eagle-2 (\$50SAT, MO-76)	39436	.	437. 505	437. 505	9600bps GFSK, RTTY, CW		r
Eagle-1 (BeakerSat-1)	39437	.	437. 465	.	9600bps GFSK		i
VELOX-P2	39438	437. 305	145. 980	145. 980	1200bps BPSK, CW		i
First-MOVE	39439	435. 520	145. 970	145. 970	1200bps BPSK, CW	MOVE1	i
CubeBug-2 (LO-74)	39440	.	437. 445	.	1k2AFSK, 9k6 FSK	CUBEB2-6	*
NEE-02 Krysaor	39441	.	980. 000 (bandwidth 25MHz)				n
PUCP-SAT-1	39442	145. 840	145. 840/437. 200	.	1200bps AFSK		i
Qubescout-S1	39443	.	437. 525	.	9600bps GMSK		i
AO-73 (FUNcube-1)	39444	435. 130–435. 150	145. 970–145. 950	145. 935	1200 bps BPSK, SSB		*
HiNCube	39445	.	437. 305	.			i
UWE-3	39446	.	435. 000/436. 395/ 437. 385	.	9600bps GMSK, CW	DPOUWG	i
FIREBIRD-1	39463	.	437. 405	.	19200bps FSK	K7MSU	i
FIREBIRD-2	39464	.	437. 230	.	19200bps FSK	K7MSU	i
ALICE	39467	.	460. xxx	.	GFSK		n
MCubed-2	39469	.	437. 479	.	9600bps GMSK	NOCALL	*
CUNYSAT-1	39470	.	437. 505	437. 505	9600bps GMSK, CW		i
IPEX (CP-8)	39471	.	437. 270	437. 270	9600bps GMSK, CW	KJ6KSL-1	i
AIST-1 (RS-41)	39492	.	.	435. 265	CW		i
Pocket-PUCP	.	.	437. 200	437. 200	1200bps AFSK, CW		i
TetherSat	.	.	437. 100/437. 305	.	9600bps GFSK		i
SkyCube	39567	.	915. 000	.	57. 6Kbps		n
LitSat-1	39568	435. 135–435. 165	145. 965–145. 935	.	SSB		r
LitSat-1	39568	435. 550	145. 845	435. 1375	9600bps FSK, CW	LY1LS	r
LituanicaSAT-1 (LO-78)	39569	145. 950	435. 1755	.	FM tone 67. 0Hz		r

LituanicaSAT-1 (LO-78)	39569	145. 850	437. 543	437. 275	9600bps FSK, CW	LY5N	r
ArduSat-2	39570	.	437. xxx	.	9600bps MSK CCSDS	WG9XFC-2	r
UAPSat-1	39571	145. 980	437. 385	.	1200bps AFSK	OAOUAP-1	i
ShindaiSat	39572	.	437. 305	437. 485	1200bps AFSK, CW	JR0ZST	r
ITF-1	39573	.	.	437. 525	CW	JQ1ZLO	r
OPUSAT	39575	.	437. 154	437. 154	1k2AFSK, 9k6GFSK, CW	JL3ZCA	r
TeikyoSat-3	39576	.	437. 450	437. 450	1200bps AFSK, CW	JQ1ZKM	r
ARTSAT1-INVASER (CO-77)	39577	.	437. 200	437. 325	1k2AFSK, DigiTalker, CW	JQ1ZKK	r
KSAT2	39578	.	S, Ku-band	.	200Kbps, 1Mbps G1D		n
STARS-II (mother)	39579	.	437. 405	437. 245	1200bps AFSK, CW	JR5YDX	r
STARS-II (daughter)	39579	.	437. 425	437. 255	1200bps AFSK, CW	JR5YDY	r
SporeSat	39681	.	2401. 200-2431. 200	437. 100	1200bps AFSK		u
TSAT (TestSat-Lite)	39682	.	.	.			u
All-Star/THEIA	39683	.	2401. 700	.	256Kbps BPSK	COSGC1AS	u
PhoneSat2. 5	39684	.	2401. 200-2431. 200	437. 425	1200bps AFSK	KJ6KRW	r
KickSat	39685	.	2401. 000-2436. 200	437. 505	1200bps AFSK	KD2BHC	r
Sprites		.	437. 240/437. 325	.	125bps MSK		u
UNIFORM-1	39767	.	2228. 000	.			n
SOCRATES	39768	.	.	.			n
RISING-2	39769	435. xxx	2401. xxx	.	1200bps 9600-96000bps		n
SPROUT	39770	.	437. 525	437. 525	1k2AFSK, 9k6GMSK, CW	JQ1ZJQ	*
SPROUT	39770	437. 600	437. 600	.	Digipeater, Digitalter, SSTV		i
UniSat-6	40012	.	437. 421	.	9600bps GMSK	I IOUS	*
BugSat-1	40014	.	437. 445	.	9600bps GMSK	LU7AA	*
SaudiSat-4	40016	.	.	.	Ka-band SSB		i
TabletSat-Aurora	40017	.	435. 550/436. 100/437. 050		9600bps GMSK, D-STAR		i
AprizeSat-9	40018	.	400. 552	.	9600bps GMSK		u
AprizeSat-10	40019	.	.	.			u
Duchifat-1	40021	435. 220	145. 825/145. 980	145. 980	1200bps BPSK, CW	4X4HSL	i
PACE	40022	.	437. 485	437. 485	1200bps AFSK, CW		i
NanosatC-Br1	40024	.	145. 865	145. 865	1200bps BPSK, CW	NCBR1	i
QB50p1/FUNCube-3 (EO-79)	40025	435. 047-435. 077	145. 965-145. 935	145. 815	1200bps BPSK, CW, SSB	QB50P1	i
POPSAT-HIP1	40028	.	437. 405	437. 405	1k2, 9k6 CCSDS, CW	POPSAT	i
DTUsat-2	40030	1268. 900	2401. 835	2401. 860	9k6CPFSK/1k2, 19k2MSK, CW	OZ2DTU	*
QB50p2 (EO-80)	40032	435. 080	145. 880/145. 840	145. 880	1200bps BPSK, CW, FM	QB50P2	i
ANELSat	40034	.	437. 575/2403. 000	437. 280	1k2 AFSK, GFSK/MSK, CW	CX1SAT	i
Perseus-M2	40037	.	400. 190/400. 221	.	9600bps GFSK	CQ	n
Perseus-M1	40039	.	400. 160/400. 170	.	9600bps GFSK	CQ	n
PolyITAN-1	40042	.	437. 677	437. 677	9600bps FSK, CW	EMOUKP	*
TigriSat	40043	.	435. 000	.	9600bps FSK	HNATIG	*
ESTELLE		.	U, S-band, 5. 8GHz	.	1Mbps-10Mbps, GFSK, BPSK		u
UNSA-SAT1		.	3. 4GHz	.	230Kbps BPSK		u
AlSat	40054	.	437. 250	437. 511	CW	DPOAIS	i
CanX-4	40055	.	145. 890/2234. 400	437. 365	32Kbps-256Kbps BPSK		i
CanX-5	40056	.	145. 890/2234. 400	437. 365	32Kbps-256Kbps BPSK		i
VELOX-I	40057	.	145. 980	145. 980	9600bps FSK, CW	VELOXI	i
I iNUSat		145. 950	436. 915	.	1k2, 9k6 FSK		u
METEOR-M2	40069	.	137. 100/137. 900	.	72K LRPT		w
DX-1	40071	144. 975-145. 025	434. 975-435. 025	438. 225	9600bps GFSK	DAURIA	i
UKube-1	40074	435. 060-435. 080	145. 960-145. 940	.	SSB		i
UKube-1	40074	.	145. 805/2401. 000	145. 840	1200bps BPSK, CW	UKUBE1	i
FUNCube-2	40074	435. 060-435. 080	145. 950-145. 930	145. 915	1200bps BPSK		i
myPocketQub		.	437. 425-437. 525	.			u

Chasqui-1	40117	.	437. 025	.	1k2AFSK, 9k6GMSK		i
4M-LXS		.	145. 980	.	WSJT-JT65B	LX00HB	d
RACE		.	437. 525	437. 525	38k4bps GMSK, CW		f
GOMX-2		.	437. 250	.	9600bps MSK		f
Hodoyoshi-1	40299	.	467. 674	.	1000bps Unknown		n
ChubuSat-1	40300	145. 980	437. 485	437. 485	1200bps 9600bps, CW	JJ2YJY	i
TSUBAME	40302	.	437. 505	437. 275	1200bps AFSK, CW	JQ1ZHX	i
SpinSat	40314	.	437. 230	.	9600bps GFSK		i
SHIN'EN2 (FO-82)	40320	145. 940-145. 960	435. 280-435. 260	437. 385/437. 505	SSB, WSJT/CW	JG6Y1G	d
ARTSAT2-DESPATCH (FO-81)	40321	.	.	437. 325	CW	JQ1ZNN	d
FIREBIRD-3	40377	.	437. 396/437. 405	.	19200bps FSK	K7MSU	*
FIREBIRD-4	40378	.	437. 219/437. 230	.	19200bps FSK	K7MSU	*
GRIFEX	40379	.	437. 480	.	9k6/19k2bps GMSK	KD8SPS	i
ExoCube-1 (CP-10)	40380	.	437. 270	437. 270	9600bps FSK, CW	K6HGC, X03	i
AESP14	40389	.	437. 600	.	9600bps GFSK		i
TechEdSat-4	40455	.	.	.			r
GEARRSat-1	40456	.	.	.			u
MicroMAS-1	40457	.	468. 000	.	1.5Mbit/s OQPSK		u
LambdaSat	40458	.	437. 462	.	1200bps AFSK		u
USS Langley	40652	28. 120/145. 825	437. 475/435. 350	2404. 000	9600bps FSK, PSK31		i
PSAT (NO-84)	40654	28. 120/145. 825	435. 350/145. 825	.	1200bps AFSK, PSK31	PSAT	r
BRICSAT-P (NO-83)	40655	28. 120	435. 350	437. 975	9600bps FSK, PSK31	BRCSAT	r
LightSail-A	40661	.	437. 435	.	9600bps FSK	KK6HIT-1	r
PTecSat		.	436. 000/437. 000-437. 200		1200bps AFSK		u
DeorbitSail	40719	.	145. 975	.	1200bps BPSK	DOS	i
SERPENS	40897	.	145. 980/437. 365	.	1k2 MSK, 9k6 GFSK, CW	PY0ESA	r
CAS-3A (XW-2A)	40903	435. 030-435. 050	145. 685-145. 665	145. 640/145. 660	9k6/19k2 GMSK/CW	BJ1SB	r
CAS-3B (XW-2B)	40911	435. 090-435. 110	145. 750-145. 730	145. 705/145. 725	9k6/19k2 GMSK/CW	BJ1SC	*
CAS-3C (XW-2C)	40906	435. 150-435. 170	145. 815-145. 795	145. 770/145. 790	9k6/19k2 GMSK/CW	BJ1SD	*
CAS-3D (XW-2D)	40907	435. 210-435. 230	145. 880-145. 860	145. 835/145. 855	9k6/19k2 GMSK/CW	BJ1SE	*
CAS-3E (XW-2E)	40909	435. 270-435. 290	145. 935-145. 915	145. 890/145. 910	9k6 GMSK/CW	BJ1SF	*
CAS-3F (XW-2F)	40910	435. 330-435. 350	146. 000-145. 980	145. 955/145. 975	9k6 GMSK/CW	BJ1SG	*
CAS-3G (DCBB, KAITUO-1B)	40912	.	145. 475/437. 950	.	9k6 GMSK	BJ1SH	*
CAS-3H (LilacSat-2)	40908	144. 350/144. 390	144. 390/437. 225	437. 200	1k2/4k8/9k6 AFSK/GFSK	BJ1SI	*
CAS-3I (NUDT-PhoneSat)	40900	.	437. 300	.	9k6 GFSK	BJ1SJ	i
TW-1A (Tianwang-1A, SECM-1)	40928	.	435. 645	.	4k8/9k6 GMSK		r
TW-1B (Tianwang-1B, NJUST-2)	40927	.	437. 645	.	4k8/9k6 GMSK		r
TW-1C (Tianwang-1C, NJFA-1)	40926	.	435. 645	.	4k8/9k6 GMSK		r
LAPAN-A2 (ORARI, IO-86)	40931	145. 880/145. 825	435. 880/145. 825	437. 425	1k2AFSK, FM tone 88. 5Hz	YBSAT/YBOX-1	*
AAUSAT-5	40948	.	437. 425	437. 425	9600bps GMSK, CW	OZ5CUB	r
GOMX-3	40949	.	437. 250	.	4k8/19k2 GMSK		r
LQSat	40958	.	437. 650/2404. 035	437. 650	4k8 MSK, 1Mbps QPSK, CW		i
Fox-1A (AO-85)	40967	435. 182	145. 980	145. 980	FM CTCSS 67. 0Hz/200bps DUV		i
BisonSat	40968	.	437. 375	.	9600bps GMSK	N7SKC	*
ARC-1	40969	.	437. 565	2440. 500	9600bps, 1Mbps, CW		r
Argus		.	2403. 000-2403. 400	437. 290	1200bps AFSK		f
EDSN 1-8		.	2401. 200-2431. 200	437. 100	1200bps AFSK		f
HawaiiSat1 (HiakaSat1)		.	145. 9805	437. 2705	9600bps GFSK		f
ORS-Squared		.	437. 325	.	9600bps GMSK		f
PrintSat		.	437. 325	.	9600bps GMSK		f
STACEM		.	.	.			f
STU-1		.	2402. 000-2445. 000	436. 360	9600bps GMSK		f
Supernova-Beta		.	437. 570	.	1200bps AFSK		f

Athenoxat-1	41168	.	437. 485	437. 485	2k4 GMSK, 4k8 AFSK, CW	ATX1	r
Galassia	41170	.	144. 200/145. 000	436. 400	4k8 AFSK, 9k6 GMSK		*
VELOX-2	41171	.	145. 930	145. 930	1200bps BPSK, CW	VELOX2	i
AggieSat-4	41313	.	436. 250	.	9k6/153k6 FSK		r
Bevo-2	41314	.	437. 325	.	38k4 FSK, CW		i
ChubuSat-2	41338	145. 815	437. 100	437. 102	1k2 AFSK, 9k6 GMSK, CW	JJ2YPN	i
ChubuSat-3	41339	145. 840	437. 425	437. 424	1k2 AFSK, 9k6 GMSK, CW	JJ2YPO	i
HORYU-4	41340	.	437. 375/2400. 300	437. 375	1k2 AFSK, 9k6 GMSK, S_BPSK, CW	JG6YBW	*
OUF1I-1	41458	435. 045	145. 950	145. 980	9600bps DSTAR FSK, CW	OUF1I-1	i
E-ST@R-II	41459	.	437. 485	437. 485	1200bps AFSK, CW	E-STAR-II	*
AAUSAT-4	41460	.	437. 425	437. 425	2k4/9k6/19k2 GFSK, CW	OZ4CUB	*
AIST-2D (RS-48)	41465	145. 831-145. 849	435. 3065-435. 3235	435. 315	4800bps PSK, CW		i
SamSat-218D	41466	435. 590-435. 610	145. 850-145. 890	145. 870	TRXSSAU, CW	SAMSAT-218D	r
MinXSS-1	41474	.	437. 350	.	9600bps GMSK	MINXSS	r
CADRE	41475	.	437. 485/3404. 000	.	9600bps GMSK, 1Mbit OQPSK		r
STMSat-1	41476	.	437. 000/437. 800	.	9600bps GMSK, SSTV		r
Nodes-2	41477	.	437. 100/2401. 200-2431. 200		1k2 AFSK, 115k2 FSK	KE6QLL	r
Nodes-1	41478	.	437. 100/2401. 200-2431. 200		1k2 AFSK, 115k2 FSK	KE6QLL	r
NuSat-1 (LO-87)	41557	435. 935-435. 965	145. 965-145. 935	145. 900	SSB, CW		i
NuSat-1 (LO-87)	41557	.	436. 445	.	9k6/19k2/40k0 GFSK		i
NuSat-2	41558	435. 935-435. 965	145. 965-145. 935	145. 900	SSB, CW		i
NuSat-2	41558	.	437. 445	.	9k6/19k2/40k0 GFSK		i
Sathyabamasat	41600	.	145. 980	.	2400bps BPSK, CW	SNSAT	i
LAPAN-A3 (IPB)	41603	.	437. 425	.	1200bps FFSK		n
BIROS	41604	.	437. 525	.	4800bps GMSK		i
Swayam COEP	41607	.	437. 025	437. 025	1200bps BPSK, CW	SWAYAM	i
BEESAT-4	41619	.	435. 950	435. 950	4800bps GMSK, CW	DPOBEH	i
3CAT-2	41732	.	145. 970/2401. 000	.	9600bps BPSK, 100kbps GMSK		i
Pratham	41783	.	437. 455	145. 980	1200bps AFSK, CW	PRATHAM	i
ALSat-IN	41789	.	437. 646	.	9600bps FSK	AL1N	i
TY-1 (Xiaoxiang-1)	41842	.	437. 500/437. 525	2401. 600	9600bps GMSK		u
Pegasus-1		.	468. 000	.	FSK		u
CAS-2A1/2A2		.	.	.			u
CAS-2T	41847	145. 925	435. 615	435. 710	FM, CW	CAS2T	*
KS-1Q	41847	.	436. 500	.	20kbps GMSK		i
STARS-C (mother)	41895	.	437. 405	437. 245	1200bps FM, CW	JJ2YPL	r
STARS-C (daughter)	41895	.	437. 425	437. 255	1200bps FM, CW	JJ2YPM	r
BY70-1	41909	145. 920	436. 200	.	9600bps BPSK, FM tone 67. 0Hz		r
Kaidun-1	41915	.	437. 600	.	1200bps BPSK	AXNWPU-4	i
Tancredo-1 (UbatubaSat)	41931	.	437. 200	437. 200	1200bps AFSK, CW	PY0ETA	r
ITF-2 (TO-89)	41932	.	437. 525	437. 525	1200bps FM, CW	JQ1ZTK	r
WASEDA-SAT3	41933	.	437. 290	437. 290	1200bps PCM-FSK, CW		i
EGG	41934	.	437. 200	.	1200bps AFSK		r
Aoba-VELOX-III	41935	.	437. 375	437. 375	1200bps AFSK, CW	JG6YBW	r
TuPOD	41936	.	437. 425	437. 425	1200bps GMSK, CW	TUPOD	r
INS-1A	41949	.	.	.			i
INS-1B	41954	.	.	.			i
DIDO-2	42000	.	400. 300	.	1200bps BPSK	DIDO2	*
Nayif-1 (FUNcube-5, EO-88)	42017	435. 015-435. 045	145. 990-145. 960	145. 940	1200bps BPSK, SSB		r
TechEdSat-5	42066	.	.	.			r
HAVELSAT (TR02)	42700	.	436. 845	436. 845	9600bps GMSK, CW	ON02TR	r
SOMP-2 (DE02)	42701	.	437. 405	.	9600bps GMSK		r
Columbia (US04)	42702	.	437. 055	.	9600bps GMSK	KD8CJT	r

SGSat	42703	.	437. 450	.	9600bps FSK		u
CXBN-2	42704	.	437. 075	.	9600bps FSK		r
IceCube	42705	.	43x. xxx	.			u
Phoenix (TW01)	42706	.	436. 915	.	9600bps GMSK	ON01TW	r
X-CubeSat (FR01)	42707	145. 860	437. 020	.	1200bps AFSK, FM	ON01FR	r
QBEE (SE01)	42708	.	435. 800	.	9600bps GFSK	ON01SE	r
ZA-AeroSat (AZ01)	42713	.	437. 195	.	9600bps GMSK	ON01AZ	r
LINK (KR01)	42714	.	436. 030	.	1200bps BPSK	D80LW	r
CSUNSat1	42715	.	437. 400	437. 400	9600bps GMSK, CW	CSUNSAT1	r
UPSat (GR02)	42716	.	435. 765	.	9600bps GMSK	GND	i
SpaceCube (FR05)	42717	145. 860	436. 880	.	1200bps AFSK, FM	ON05FR	r
Hoopoe (IL01)	42718	.	437. 740	.	9600bps BPSK	ON01IL	r
Challenger (US01)	42721	.	437. 510	.	9600bps GMSK	QBUS01	r
NJUST-1 (CN03)	42722	.	436. 570	.	1200bps BPSK	B14ST	r
UNSW-ECO (AU02)	42723	.	436. 525/2400. 500	.	4800bps GMSK	ON02AU	r
DUTHSat (GR01)	42724	.	436. 420	.	1200bps BPSK	SZ2DUT	r
LilacSat-1 (CN02, L0-90)	42725	145. 985	436. 510	.	9600bps BPSK, FM	ON02CN	r
nSight-1 (AZ02)	42726	.	435. 900/2405. 000	.	9600bps GMSK	ON02AZ	r
SNUSAT-1b (KR03)	42727	.	435. 950	.	1200bps BPSK	ON03KR	r
QBITO (ES01)	42728	.	436. 810	.	9600bps GFSK		r
Aalto-2 (FI01)	42729	.	437. 335	437. 335	9600bps GFSK, CW	AALT02	r
SUSat (AU01)	42730	.	436. 775	.	9600bps FSK		r
INSPIRE-2 (AU03)	42731	.	436. 330	.	4800bps GMSK	ON03AU	r
PolyITAN-2-SAU (UA01)	42732	.	436. 600	.	9600bps BPSK	QBUA01	r
SNUSAT-1 (KR02)	42733	.	436. 090	.	1200bps BPSK	ON02KR	r
ExAlta-1 (CA03)	42734	.	436. 705	.	4k8/9k6/19k2 GMSK	ON03CA	r
AoXiang-1 (CN04)	42735	.	436. 150/437. 640	.	9600bps BPSK	NPUAX1	r
BeEagleSat (TR01)	42736	.	437. 370	.	9600bps GMSK	ON01TR	r
Atlantis (US02)	42737	.	436. 390	.	9600bps GMSK	WD8DOX	r
CAS-4A (ZHUHAI-1 01)	42761	435. 210-435. 230	145. 880-145. 860	.	SSB		i
CAS-4A (ZHUHAI-1 01)	42761	.	145. 835	145. 855	4800bps GMSK, CW	BJ1SK	i
CAS-4B (ZHUHAI-1 02)	42759	435. 270-435. 290	145. 935-145. 915	.	SSB		*
CAS-4B (ZHUHAI-1 02)	42759	.	145. 890	145. 910	4800bps GMSK, CW	BJ1SL	*
UCLSat (GB03)	42765	.	435. 975	.	9600bps GMSK	ON03GB	i
NIUSAT	42766	.	436. 000/2240. 000	.	1200bps FSK	NIUOBT	i
LituanicaSAT-2 (LT01)	42768	.	437. 265	.	9600bps FSK	LY0LS	*
InflateSail (GB06)	42770	.	436. 060	.	1200bps BPSK	ON06GB	r
Aalto-1	42775	.	437. 220/2402. 000	437. 220	9600bps GFSK, CW	OH2A1S	*
URSA MAIOR (IT02)	42776	.	435. 950	.	9600bps FSK	URSAMR	i
COMPASS-2/DragSail (DE04)	42777	.	437. 300/2403. 000	.	1200bps AFSK		i
Max Valier Sat	42778	.	145. 860 145. 960/437. 325	CW		I13MV	*
Pegasus (AT03)	42784	.	436. 670	.	9600bps GMSK	ON03AT	i
Red Diamond	42783	.	401. 150	.	9600bps FSK		*
Green Diamond	42785	.	401. 150	.	9600bps FSK		*
Blue Diamond	42786	.	401. 150	.	9600bps FSK		*
NUDTSat (CN06)	42787	.	436. 270	.	9600bps BPSK	BG7AKF	i
SUCHAI	42788	.	.	437. 229	CW	SUCHAI	*
skCUBE	42789	437. 100	437. 100/2401. 000	437. 100	9k6GMSK, Digipeater, CW	OM9SAT	i
VZLUsat-1 (CZ02)	42790	.	437. 240	437. 240	4800bps MSK, CW	VZLUSAT1	r
Venta-1	42791	.	437. 325/2289. 250	.	9600bps FSK	YL1VA	i
ROBUSTA-1B	42792	.	437. 325	437. 325	1200bps AFSK, CW	FX6FR	*
D-SAT	42794	.	437. 505	437. 505	4800bps GMSK, CW	U1-DSAT-U1	i
IITMSAT		.	437. 505	.	19k2 GMSK		u

BIRD-J (Japan Toki)	42820	.	437. 375	437. 372	1k2AFSK, 9k6GMSK, CW	JG6YJO	r
BIRD-G (Ghana GhanaSat-1)	42821	.	437. 375	437. 372	1k2AFSK, 9k6GMSK, CW	JG6YJP	i
BIRD-M (Mongolia Mazaalai)	42822	.	437. 375	437. 372	1k2AFSK, 9k6GMSK, CW	JG6YJQ	r
BIRD-B (Bangladesh BRAC)	42823	.	437. 375	437. 372	1k2AFSK, 9k6GMSK, CW	JG6YJS	r
BIRD-N (Nigeria EduSat-1)	42824	.	437. 375	437. 372	1k2AFSK, 9k6GMSK, CW	JG6YJR	r
TechnoSat	42829	.	435. 950	435. 950	4k8/9k6 GMSK, CW	DPOTBA	i
CORVUS-BC2	42846	.	400. 175	.	FM		i
CORVUS-BC1	42847	.	400. 175	.	FM		i
Tomsk-TPU-120	42910	.	437. 025	145. 800	9600bps FSK, Voice	RS4S	i
Tanusha-SWSU-1 (YuZGU-1)	42911	.	437. 050	145. 800	9600bps FSK, Voice	RS6S	r
Tanusha-SWSU-2 (YuZGU-2)	42912	.	437. 050	145. 800	9600bps FSK, Voice	RS7S	r
QIKCOM-1		145. 825	145. 825	144. 390	1200bps AFSK	QIKCOM-1	i
NOAA-20 (JPSS-1)	43013	.	2. 248GHz	.	FM		w
MakerSat-0	43016	.	.	.			i
Fox-1B (RadFxSat, AO-91)	43017	435. 250	145. 960	145. 960	FM CTCSS 67. 0Hz/200bps DUV		*
EagleSat-1	43018	.	437. 645	.	1200bps AFSK		i
EcAMSat	43019	.	437. 095	.	1200bps AFSK	KE6QLL	r
TechEdSat-6	43026	.	.	.			r
OSIRIS-3U	43027	.	437. 505	.	9k6-38k4GMSK		r
LAICE-1		.	437. 505	.	9600bps GMSK		u
SEAM		.	437. 250	.	9600bps GMSK	SAOSAT	f
D-Star ONE		437. 325	435. 525/435. 700	.	D-Star, Telemetry		f
INS-1C	43116	.	435. 080	.	1200bps FSK	INDUSR	i
PicSat	43132	145. 910	435. 525	.	1k2/9k6 BPSK, FM	PICSAT-2	*
CNUSail-1	43133	.	437. 100	.	9600bps GMSK		u
SIGMA	43134	.	435. 780	.	9600bps BPSK		i
KAUSAT-5	43135	.	437. 465/2413. 000	.	9600bps FSK, 115k2 MSK		u
Fox-1D (AO-92)	43137	435. 350/1267. 350	145. 880	145. 880	FM CTCSS 67. 0Hz/200bps DUV		*
STEP CubeLab (STEP-1)	43138	.	437. 485	437. 485	9600bps FSK, CW		*
Canyval-X 1/2		.	435. 000	.	9600bps MSK		u
TY-2 (Xiaoxiang-2)	43155	435. 350/2403. 000/5653. 000	435. 350/2403. 000/5833. 000	9k6 GMSK/5Mbps	OFDM		i
TY-3 (Xiaoxiang-3)	43664	435. 875/2406. 000/5656. 000	435. 875/2406. 000/5836. 000	9k6 GMSK/5Mbps	OFDM		u
TY-4 (Xiaoxiang-4)	43669	435. 925/2409. 000/5659. 000	435. 925/2409. 000/5839. 000	9k6 GMSK/5Mbps	OFDM		*
TY-5 (Xiaoxiang-5)	43553	436. 025/2412. 000/5665. 000	436. 025/2412. 000/5842. 000	9k6 GMSK/5Mbps	OFDM		u
TY-6 (Xiaoxiang-6)	43158	436. 100/2415. 000/5667. 000	436. 100/2415. 000/5845. 000	9k6 GMSK/5Mbps	OFDM		i
Zhou Enlai (Huai'An-1, HA-1)	43156	145. 930	436. 950	437. 350/437. 644	FM, 9600bps BPSK	BI4ST	*
SNet-A	43186	.	435. 950/2263. 000	.	1k2/2k4 FFSK	DPOTBB	i
SNet-B	43187	.	435. 950/2263. 000	.	1k2/2k4 FFSK	DPOTBC	i
SNet-C	43188	.	435. 950/2263. 000	.	1k2/2k4 FFSK	DPOTBD	i
SNet-D	43189	.	435. 950/2263. 000	.	1k2/2k4 FFSK	DPOTBE	i
D-Star ONE Phoenix	43188	437. 325	435. 525	.	D-Star, Telemetry	DP1GOS	i
FMN-1 (FengMaNiu-1)	43192	145. 945	435. 350	.	9600bps BPSK, FM	BUAABJ	*
GOMX-4B	43196	.	400. 800	.			n
GOMX-4A	43196	.	400. 800	.			n
Shaonian-Xing (Juvenile-1F)	43199	.	.	436. 370	9600bps BPSK	MXSAT-1	*
1KUNS-PF	43466	.	437. 300	.	1k2/2k4/4k8/9k6 GMSK		r
UBAKUSAT	43467	145. 940-145. 990	435. 200-435. 250	.	SSB		r
UBAKUSAT	43467	.	437. 325	437. 225	9600bps GMSK, CW	YM1RAS	r
Irazu	43468	.	436. 500	.	9600bps FSK	TIOIRA	r
DSLWP-A1 (A) (LO-93)	43471	.	435. 425/2222. 810	436. 425	500/250bps GMSK, JT4G	BJ1SM	i
DSLWP-A2 (B) (LO-94)	43472	.	435. 400/2275. 220	436. 400	500/250bps GMSK, JT4G	BJ1SN	r
LuoJia 1-01	43485	.	437. 250	.	4800bps GMSK		i
EnduroSat One	43551	.	437. 050	437. 050	9600bps GMSK, Music	LZOAMS	r

EQUISat	43552	.	435. 550	435. 550	4k8/9k6 4LFSK, CW, LED		r
RadSat-g	43553	.	437. 425	.	9600bps GMSK	K7MSU	r
MemSat	43554	.	437. 350	.	9600bps BPSK		r
BIRD-MY (UiTMSAT-1)	43589	145. 825	145. 825/437. 375	437. 375	APRS digipeater, CW	JG6YKN	r
BIRD-PH (MAYA-1)	43590	145. 825	145. 825/437. 375	437. 375	APRS digipeater, CW	JG6YKM	r
BIRD-BT (BHUTAN-1)	43591	145. 825	145. 825/437. 375	437. 375	APRS digipeater, CW	JG6YKL	r
SiriusSat-1 (SXC1-181)	43595	.	435. 570/435. 619	.	4800bps GMSK	RS13S	r
SiriusSat-2 (SXC1-182)	43596	.	435. 670/435. 719	.	4800bps GMSK	RS14S	r
Tanusha-SWSU-3 (YuZGU-3)	43597	.	437. 050	.	1200bps AFSK, Voice	RS8S	r
Tanusha-SWSU-4 (YuZGU-4)	43598	.	437. 050	.	1200bps AFSK, Voice	RS9S	r
SurfSat	43614	.	437. 275	.	9600bps FSK		r
CP-7 (DAVE)	43615	.	437. 150	437. 150	9600bps FSK, CW	WI2XNR-1	r
ELFIN-B	43616	.	437. 475	.	9k6/19k2 GFSK	WJ2XOX	r
ELFIN-A	43617	.	437. 450	.	9k6/19k2 GFSK	WJ2XNX	r
SPATIUM-I	43638	.	401. 000/467. 000	.			n
RSP-00	43639	.	145. 890/436. 930	145. 890	1k2AFSK 38k4 pi/4QPSK, CW	8J1RSP	r
STARS-Me (mother)	43640	.	437. 405	437. 245	1k2AFSK 9k6GMSK, CW	JJ2YPL	r
STARS-Me (daughter)	43640	.	437. 425	437. 255	1k2AFSK 9k6GMSK, CW	JJ2YPM	ri
CubeBel-1 (BSUSat-1)	43666	436. 200	436. 990	.	4k8/9k6GMSK, Digipeater	EU10S	*
AUTcube2		.	437. 385	437. 505	1k2AFSK 9k6FSK, WSJT	JJ2YTA	u
Proiteres-2		435. 650	145. 850	145. 850	1k2AFSK Digipeater, CW		u
Ten-Koh	43677	.	437. 390	437. 390	1k2AFSK 9k6GMSK, CW, WSJT	JG6YKY	*
Diwata-2 (PO-101)	43678	437. 500	145. 900	145. 900	FM tone 141. 3Hz, CW	D1W2PH	*
STARS-A0	43679	.	437. 400/437. 200	437. 350	1k2AFSK 115kGMSK, CW	JJ2YSY	i
Irvine01	43693	.	437. 800	437. 800	9600bps FSK, CW	KK6CVB	r
Es' Hail-2 (Phase-4A, Q0-100)	43700	2400. 050-2400. 300	10489. 550-10489. 800	.	Linear transponder		*
Es' Hail-2 (Phase-4A, Q0-100)	43700	2401. 500-2409. 500	10491. 000-10499. 000	.	Digital transponder		u
FacSat-1	43721	.	437. 350	.	9600bps MSK		*
Centauri-2	43722	.	400. 625	.	9600bps FSK		i
InnoSat-2	43738	.	435. 500/437. 450	.	4800bps GMSK		r
Reaktor Hello World	43743	.	437. 775/2410. 000	437. 775	9k6 2GFSK/1MbpsMSK, CW	OH2RHW1	r
MinXSS-2	43758	.	437. 250	.	9600bps GMSK	MINXS2	i
SeeMe	43758	.	437. 425/2425. 000	437. 450	CW		i
VisionCube	43758	.	437. 425	.	9600bps GMSK		u
K2SAT	43761	145. 980	436. 225/2404. 000	435. 835	FM, 9600bps BSPK		i
KNACKSAT	43761	.	435. 635	435. 635	1k2/9k6 GFSK CW	HSOK	i
AISTECHSAT-2	43768	.	436. 730	.	4k8/9k6 FSK		*
Fox-1Cliff (AO-95)	43770	435. 300/1267. 300	145. 920	145. 920	FM CTCSS 67. 0Hz/200bps	DUV	i
RANGE-A	43772	.	437. 150	.	0. 1kbps-115. 2kbps FSK/MSK/GFSK/GMSK		i
RANGE-B	43773	.	437. 475	.	0. 1kbps-115. 2kbps FSK/MSK/GFSK/GMSK		i
ExseedSat-1 (VO-96)	43775	.	145. 900	.	FM		i
MOVE-2	43780	437. 800	145. 950	145. 950	12k5 BPSK, CW	DBOMVE	*
3CAT-1	43781	.	437. 250	437. 250	9600bps BPSK, CW		i
SNUSAT-2	43782	.	437. 625/2402. 000	.	9k6 BPSK/1. 06Mbit DQPSK		i
SNUGLITE	43784	.	437. 275/2405. 000	.	9600bps GMSK		i
ITASAT-1	43786	.	145. 860/2400. 150	.	1200bps BPSK	PYOEIA	*
KAZSCISAT-1	43787	.	435. 500	.	9600bps GMSK		i
Irvine02	43789	.	437. 450	.	9600bps FSK		i
Eaglet-1	43790	.	435. 200/435. 800	.	1200bps		n
ESE0	43792	1263. 500	145. 930/145. 895	437. 000	FM, 1k2BPSK, 4k8/9k6GFSK	IW4DUL	*
FUNCube-4	43792	.	145. 895	.	1200bps BPSK		i
CSIM-FD	43793	.	437. 250	.	9k6/19k2 GMSK	CSIM	*
Astrocast-0. 1	43798	.	435. 147/2403. 000	.	1200bps FSK	HB9GSF	*

JY1Sat (FUNcube-6, JO-97)	43803	435. 100-435. 120	145. 875-145. 855	145. 840	1200bps BPSK, SSB, CW	JY1SAT	*
Suomi-100	43804	.	437. 775/2410. 000	.	9600bps FSK		*
Al-Farabi-2	43805	.	436. 500	436. 500	4800bps GMSK, CW	UN1GWA	i
Centauri-1	43809	.	400. 625	.	9600bps FSK		i
PW-Sat2	43814	.	435. 275	.	1k2/9k6 BPSK	PWSAT2	r
CubeSail-1/2	43851	.	437. 305/437. 505	.	9600bps GMSK		r
NMTSat	43851	.	148. 800	.	9600bps GFSK		r
CHOMPTT	43855	.	437. 560	.	1k2AFSK/9k6GMSK	WI2XVT	*
CP-11 (ISX)	43856	.	437. 150	437. 150	9600bps FSK, CW		i
DaVinci	43857	145. 100	436. 500	.	9600bps GMSK		r
D-Star ONE iSat	43879	437. 325	435. 525/435. 700	.	4k8/9k6 GMSK	DP2GOS	*
UWE-4	43880	437. 375	435. 600/437. 375/437. 385		9600bps FSK, Digipeater	DPOUWH	*
D-Star ONE Sparrow	43881	437. 325	435. 525/435. 700	.	4k8/9k6 GMSK	DP1GOS	*
ZACube-2	43907	437. 525/1260. 250	437. 345/2405. 000	14. 099	9600bps FSK		u
LUME-1	43908	.	437. 060	.	4800bps GMSK		*
OrigamiSat-1 (FO-98)	43933	.	437. 505/5840. 000	437. 497	1200bps AFSK, CW	JS1YAX	r
MicroDragon	43935	.	2228. 000	.			n
NEXUS (FO-99)	43937	145. 900-145. 930	435. 910-435. 880	435. 900/437. 075	9k6/38k4FSK, pi/4QPSK, CW	JS1YAV	*
Aoba-VELOX-IV	43940	.	437. 225	.	9600bps GMSK		i
LINGQUE-1A	43942	.	401. 800	.	FM		r
KALAMSAT-V2	43948	.	436. 500	.			u
Delphini-1	44030	.	437. 500	.	1k2/4k8/9k6 GMSK		r
TechEdSat-8	44032	.	.	.			r
TechEdSat-9		.	.	.			t
MYSAT-1	44045	.	435. 775	.	1k2/4k8/9k6 BPSK	A68MY	r
KickSat-2	44046	.	437. 505	.	1200bps FSK	KD2BHC	r
Sprites	44046	.	437. 240	.	CDMA		r
Astrocast-0. 2	44083	.	437. 175/2406. 000	.	1200bps FSK	HB9GSF	i
AISTECHSAT-3	44103	.	436. 730	.	4k8/9k6 FSK		*
AISAT-1	44104	145. 825	145. 825/2259. 000	.	1200bps AFSK	AISAT-1	i
M6P	44109	.	437. 265	.	9600bps FSK	LY0LS	i
BIRD-LKA (Raavana-1)	44329	.	437. 375	437. 375	4800bps GMSK, CW	JG6YLG	r
BIRD-JPN (Uguisu)	44330	.	437. 375	437. 375	4800bps GMSK, CW	JG6YLE	r
BIRD-NPL (NepaliSat-1)	44331	.	437. 375	437. 375	4800bps GMSK, CW	JG6YLF	r
SpooQy-1	44332	.	435. 300/436. 200/437. 500		4k8/9k6 GMSK		r
Prox-1 (Nanosat-7)	44339	437. 345	2300. 000	.			u
Oculus-ASR (NanoSat-6)	44346	.	437. 200	.	9600bps GMSK		u
Armadillo	44352	.	437. 525	.	19k2/38k4 GMSK	KE5DTW	r
PSAT-2 (NO-104)	44354	29. 350/145. 825	145. 825/435. 350/437. 605		1k2/SSTV PSK31	PSAT2-1	r
BRICSAT2 (USNAP1, NO-103)	44355	28. 120/145. 825	145. 825/435. 350/437. 605		1k2/9k6 FSK	USNAP1-1	r
TBEx-A	44356	.	437. 485	.	9600bps GMSK	KF6RFX	r
TBEx-B	44359	.	437. 485	.	9600bps GMSK	KF6RFX	r
CP-9 (LEO)	44360	.	437. 505	.	9k6/19k2/38k4 FSK	KJ6RQH-1	r
Painani-1	44365	.	437. 475	.	9600bps GMSK	SPACE	r
StangSat		.	.	.			u
TEPCE-1/2		.	.	.			u
ACRUX-1	44369	.	437. 200	.	9600bps GMSK	CQ	r
METEOR-M2-2	44387	.	137. 100/137. 900	1700. 000	72kbps QPSK, AHRPT		w
NSLSat-1	44391	.	401. 200	.	FM		u
VDNH-80	44392	.	436. 500	.	4800bps Mobitex		*
LightSat (D-Star One)	44393	.	435. 700/436. 500	.	4k8/9k6 Mobitex GMSK		i
AmurSat (AmGU-1)	44394	.	436. 250	.	4800bps mobitex		*
MOVE-2B	44398	.	145. 840	145. 840	12k5bps BPSK, CW	DPOMVB	i

ROBUSTA-1C (MTCube-1)	44399	.	436. 750	.	9600bps FSK		i
SONATE	44400	.	145. 840/437. 025	.	9k6GMSK/GSFK, SSTV		u
TTU101	44401	.	435. 450/435. 500/10460. 000		9600bps GFSK/GMSK		u
Sokrat	44404	.	436. 000	.	4800bps mobitex GMSK		*
Lucky-7	44406	.	437. 525	.	4k8/9k6 GFSK		*
EXOCONNECT (D-Star One)	44410	.	435. 700	.	4k8/9k6 GMSK		r
SEAM-2. 0	44411	.	437. 250/2208. 200	.	9600bps GMSK		r
BEESAT-9	44412	.	435. 950	.	4k8/9k6 GMSK	DPOBEM	*
NARSScube-2	44418	.	.	437. 974	CW		r
JAISAT-1	44419	145. 935-145. 965	435. 965-435. 935	435. 700	1k2PSK/4k8GMSK		*
Ecuador-UTE	44419	.	.	437. 050	CW		u
LightSail-2	44420	.	437. 025	.	9600bps GMSK	KK6HIT-10	r
Swiatowid	44426	436. 000	145. 850/435. 500/2435. 000		1k2AFSK/9k6GFSK	SR9SAT-6	r
KRAKsat	44427	.	435. 500	.	1k2AFSK/9k6GMSK	SR9KRA-6	r
EntrySat	44429	.	436. 950	.	9600bps BPSK	ON02FR	r
BEESAT-10		.	435. 950	.	1200bps GMSK	DPOBEN	u
BEESAT-11		.	435. 950	.	1200bps GMSK	DPOBEO	u
BEESAT-12		.	435. 950	.	1200bps GMSK	DPOBEP	u
BEESAT-13		.	435. 950	.	1200bps GMSK	DPOBEQ	u
CAS-7B (BP-1B, BO-102)	44443	145. 900	435. 690	.	VHF/UHF FM		r
CAS-7B (BP-1B, BO-102)	44443	.	.	435. 715	UHF CW		r
BRO-1	44495	.	.	.			u
Taurus-1	44530	145. 820	436. 760	435. 840	9600bps BPSK, FM		i
Egycubesat-2	44718	.	.	437. 974	CW		u
RWASAT-1	44790	.	.	.			r
AQT-D	44791	.	.	.			r
NARSScube-1 (Egycubesat-1)	44792	.	.	437. 970	CW		r
FossaSat-1	44829	.	436. 700	.	FSK RTTY 45 baud		r
ATL-1 (MO-106)	44830	.	437. 175	.	12. 5kbps GMSK		r
TRSI-1	44831	.	437. 075	437. 075	FSK, CW		r
SMOG-P (MO-105)	44832	.	437. 150	.	12. 5kbps GMSK		r
Tianqi-4B	44841	.	401. 612	.	FM		r
Duchifat-3	44854	145. 970	436. 400	.	FM/APRS/9k6BPSK	4H4HSL-1	i
OPS-SAT	44878	.	437. 200	.	9600bps GMSK	DPOOPS	*
CAS-6 (TIANQIN-1, TO-108)	44881	435. 270-435. 290	145. 935-145. 915	.	SSB		*
CAS-6 (TIANQIN-1, TO-108)	44881	.	145. 890	.	4800bps GMSK	BJ1S0	*
CAS-6 (TIANQIN-1, TO-108)	44819	.	.	145. 910	CW	BJ1S0	*
FloripaSat-1	44885	436. 100	436. 100	145. 900	1k2/2k4 2GFSK	PY0EFS	i
DOSAAF-85 (RS-44)	44909	145. 935-145. 995	435. 670-435. 610	435. 605	SSB, CW	RS44	*
OF-2	45113	.	435. 040/2426. 000	.	9k6 GMSK/3-5Mbps QPSK	KG5UAK	i
SwampSat-2	45115	.	145. 875/436. 600/2432. 000		9k6 GMSK/3Mbps QPSK	WK2XID	r
HuskySat-1 (HO-107)	45119	145. 910-145. 940	435. 840-435. 810		SSB		i
HuskySat-1 (HO-107)	45119	.	435. 800/24049. 000	.	1200bps BPSK		i
EDGEcube	45124	.	437. 465	.	1200bps FSK		r
HARP	45256	450. 000	468. 000	.			r
Argus-2 (MVP-Argus)	45257	.	437. 290	.	9600bps GMSK		r
Phoenix	45258	.	437. 350/2402. 500	.	9600bps GMSK	WJ2X0Y	r
CryoCube-1	45260	2082. 004	2261. 000	.			r
AzTechSat-1	45261	.	437. 300	.	9600bps GMSK/FSK		r
RadSat-u	45262	.	437. 425	.	19200bps GMSK		r
QARMAN	45263	.	437. 350	.	9600bps GMSK	ON05BE	r
SORTIE (Helio-5)	45264	450. 000	468. 000	.			r
CySat-1		.	436. 375	.	9600bps		u

SOCRATES			914. 700				u
NOUR-1	45529	.	431. 500	.	9600bps FSK	SPACE	r
QUETZAL-1	45598	.	437. 200	.	4800bps GMSK		r
BY70-2	45857	.	436. 200	.	9600bps BPSK		*
TechEdSat-10	45917	.	.	.			r
ESAIL	46273	.	.	.			u
ION-MK01	46274	.	437. 515	.	1200bps FSK		i
UPMSat-2	46276	.	437. 405	.	1200bps FSK	UPMST2	*
SIMBA	46279	.	401. 175	.	1200bps BPSK		u
TRISAT	46280	145. 900	436. 500	435. 6125	9600bps GMSK CCSDS		u
DIDO-3	46284	.	400. 450	.	1200bps BPSK	DIDO-3	*
AmicalSat	46287	.	436. 100/2415. 300	.	1k2 AFSK, 9k6 GMSK	RS17S	*
TTU100	46312	.	435. 450/10465. 000	.	9k6 FSK/GMSK/MSK/OQPSK	ES1WS	*
MeznSat	46489	.	436. 600	.	1k2/2k4/4k8 BPSK	A68MZ	*
Yarilo-1	46490	.	435. 350	.	9600bps FSK		i
Yarilo-2	46491	.	435. 550	.	9600bps FSK		i
DEKART	46493	.	437. 000	.	4800bps mobitex		*
Norbi	46494	.	436. 700	.	9600bps FSK/250k LoRa	CUBSAT	*
SALSAT	46495	.	435. 900/435. 950	.	1200bps TUBIX10 AFSK		*
NETSAT-1	46506	.	435. 600	.	9600bps GFSK	DP2NSA	u
NETSAT-2	46507	.	435. 600	.	9600bps GFSK	DP2NSB	*
NETSAT-3	46505	.	435. 600	.	9600bps GFSK	DP2NSC	u
NETSAT-4	46504	.	435. 600	.	9600bps GFSK	DP2NSD	u
BY70-3	46839	.	437. 600	.	9600bps BPSK	NPUY3	*
KSM1-A	46912	.	401. 030	.	9600bps FSK		*
KSM1-B	46914	.	401. 060	.	9600bps FSK		*
KSM1-C	46906	.	401. 120	.	9600bps FSK		*
KSM1-D	46907	.	401. 090	.	9600bps FSK		*
R2	46913	.	401. 050	.	FM		u
SPOC	46921	.	437. 350/2401. 300	.	9k6 GMSK, 2Mbps QPSK	MOCI-1	r
Bobcat-1	46922	.	436. 600	.	9k6, 38k4, 57k6 GMSK	BOBCAT-1	r
NEUTRON-1	46923	145. 840	435. 300	.	9k6 FSK/1k2 BPSK_KISS	WH6DNU-1	r
SATLLA-1	46924	.	437. 250/2401. 000	.	476bps-9k6bps		r
DESCENT	46927	.	435. 775	.	19k34 GMSK		r
APSS-1	46932	.	435. 100	.	9600bps GMSK		u
BRO-2	46940	.	.	.			u
BRO-3	46943	.	.	.			u
CAPE-3	47309	.	145. 825/437. 325	.	1k2 AFSK, 9k6 FSK	W5UL-11	*
Fox-1E (RadFXsat-2, AO-109)	47311	145. 860-145. 890	435. 790-435. 760	435. 750	1k2 BPSK, SSB, CW		*
TechEdSat-7	47312	.	.	.			r
MiTEE-1	47314	.	437. 800	.	9600bps FSK	WL9XJH	i
PIC-A	47317	.	903. 800	.	19200bps GMSK		i
PIC-B	47318	.	903. 800	.	19200bps GMSK		i
CP-12 (ExoCube-2)	47319	.	437. 150	437. 150	9600bps FSK, CW	KK6HIT	i
Q-PAGE		.	437. 275	.	9600bps FSK		i
UVSQ-Sat	47438	145. 905	437. 020	.	1k2/9k6 BPSK, FM	LATMOS-1	*
YUSAT-1	47439	145. 825	436. 250	.	1k2AFSK/9k6GMSK	BNOYS	i
ASELSAT	47441	.	436. 950	.			u
SOMP-2B	47445	.	435. 600	.	9600bps GMSK	DP2TUD	*
PIXL-1 (CUBEL)	47448	.	400. 575	.	9600bps MSK		*
IDEASSat	47458	.	437. 345/2420. 000	.	9600bps GMSK	BNOIDA	i
ARCE-1A		.	2417. 000/2449. 2815	.	BPSK, QPSK, FSK		i
ARCE-1B		.	2417. 000/2449. 2815	.	BPSK, QPSK, FSK		i

ARCE-1C			2417.000/2449.2815		BPSK, QPSK, FSK		i
VR3X-A	47463	.	.	915.600	CW		i
VR3X-B	47467	.	.	915.600	CW		i
VR3X-C	47524	.	.	915.600	CW		i
ION-SCV 002	47504	.	.	.			u
JITSAT	47716	.	437.500	.	1100bps AM		i
SSIETSAT	47717	.	436.000	.	LoRa		i
GHRCESAT	47718	.	436.000	.	LoRa		i
SDSAT	47721	.	435.500	435.500	LoRa, RTTY, CW		i
WARP-01	47924	.	437.425	437.425	1k2GFSK, 4FSK, CW	JQ1ZTK	r
RSP-01	47925	.	145.810	145.810	1k2AFSK/9k6GMSK/19k2FSK, CW	8N1RSP	r
Tausat-1	47926	.	436.400	436.400	9600bps BPSK, CW	TAUSAT-1	r
Tsuru (BIRDS-4)	47927	145.825	145.825	437.375	4k8FSK, APRS, CW	JG6YMX	r
STARS-EC (A)	47928	.	437.405/437.200	437.245	115k2, CW	JJ2YVA	r
STARS-EC (B)	47928	.	437.425/437.200	437.255	115k2, CW	JJ2YVB	r
STARS-EC (C)	47928	.	437.400/437.200	437.350	115k2, CW	JJ2YVC	r
Maya-2 (BIRDS-4)	47929	145.825	145.825/437.375	437.375	4k8FSK, APRS, CW	JG6YMY	r
OPUSAT-II (Hirogari)	47930	436.500	145.900	145.900	1k2AFSK/9k6/13k6GMSK, CW	JL3ZKS	r
GuaraniSat-1 (BIRDS-4)	47931	145.825	145.825	437.375	1k2AFSK/4k8FSK, APRS, CW	JG6YMZ	r
CANYVAL-C1	47938	.	436.330	.	4800bps GMSK		u
CANYVAL-C2	47938	.	437.500	.	4800bps GMSK		u
WildTrackCube-SIMBA (1KUNS-3)	47941	.	435.310	.	1k2/9k6 FSK		*
UniSat-7	47945	.	437.425	.	9600bps FSK	I IOUS	*
NanosatC-Br2	47950	.	145.865	.	1k2/2k4/4k8/9k6BPSK	NCBR2	*
CubeSX-Sirius-HSE	47951	.	437.050/10465.000	.	2k4/9k6FSK/DVB-S2	RS14S	*
CubeSX-HSE	47952	.	435.650/10455.000	.	9k6FSK/DVB-S2	RS13S	*
KSU-Cubesat	47954	.	437.130	.	4800bps GMSK	KSUC1	*
BEESAT-6	47957	.	435.950	.	4800bps GMSK	DBOBEJ	*
KMSL	47958	.	437.265	.	9600bps BPSK	KMSLAB-1	i
GRBALPHA	47959	145.905	437.025	437.025	9k6GFSK, Digipeater, CW	OM9GRB	*
ORBITCRAFT-ZORKIY	47960	.	437.850/437.950/10465.000	.	2k4/4k8/9k6FSK, SSTV	RS15S	*
Sateliot-1	47961	.	399.975/400.550	.	QPSK		i
3B5GSAT	47961	.	437.130	.			u
STECCO	47962	.	435.800	.	9600bps FSK		i
DIY-1 (Arduiqube, DO-111)	47963	.	437.125	437.125	100bdRTTY, 500bdFSK, CW	CONDOL	*
SMOG-1 (MO-110)	47964	.	437.345	437.345	2GMSK, CW		*
Centauri-3	47966	.	400.180	.	9600bps FSK		*
BCCSAT-1	48041	.	435.635	435.635	4800bps GMSK, CW	HSOW	*
FEES	48082	.	437.200	.	9600bps FSK/LoRa		i
BEESAT-5	48083	.	435.950	.	4800bps GMSK	DBOBEI	*
BEESAT-7	48084	.	435.950	.	4800bps GMSK	DBOBEK	*
BEESAT-8	48085	.	435.950	.	4800bps GMSK	DBOBEL	*
CSS (TIANHE)	48274	435.06839	145.98723	.	FM		u
CSS (TIANHE)	48274	145.850	145.985	.	NFM, Crew Voice		u
CSS (TIANHE)	48274	435.050	436.510	.	NFM, Crew Voice		u
CSS (TIANHE)	48274	145.875	436.510	.	NFM, Repeater		u
CSS (TIANHE)	48274	435.075	145.985	.	NFM, Repeater		u
CSS (TIANHE)	48274	145.825	145.825	.	1k2_AFSK, Digipeater		u
CSS (TIANHE)	48274	437.550	437.550	.	1k2_AFSK, Digipeater		u
CSS (TIANHE)	48274	145.850	145.985	.	SSTV, Imaging		u
CSS (TIANHE)	48274	435.050	436.510	.	SSTV, Imaging		u
RAMSAT	48850	.	436.300	.	9600bps FSK	CQ	r
SOAR	48851	.	401.723	.			n

MIR-SAT1 (MO-112)	48868	145. 9875	436. 925	.	9600bps GMSK, Digipeater	3B8MIR	r
STORK-5	48872	.	401. 100	.	9600bps FSK		r
STORK-4	48873	.	401. 100	.	9600bps FSK		i
Centauri-4	48898	.	400. 180	.	FSK		*
TUBIN	48900	.	435. 950	.	9600bps GMSK	DPOTBN	i
Umbra-01	48906	.	2254. 000		FM		i
ION-SCV 003	48912	.	437. 515	.	1200bps FSK		i
SPARTAN	48912	.	400. 360	.	9600bps GFSK		i
PAINANI-2	48942	.	437. 475/2410. 300	.	9600bps GMSK	WJ2X0X	*
QMR-KWT	48943	.	436. 500	.	9600bps GMSK	LZOKWT	i
Aurora	48956	.	400. 500	.	FM		i
NAPA-2	48963		437. 120/437. 150	.	1200bps BPSK	NAPA2	u
Neptuno	48966	.	401. 500	.	FM		u
DHABISAT (MYSAT-2)	49016	.	436. 908	.	1200bps BPSK	A68MX	*
IT-SPINS	49017	.	437. 405	.	19200bps GMSK	K7MSU	*
BRO-4	49066	.	401. 735	.	9600bps FSK		*
LEDSAT	49069	435. 310	435. 190	.	1k2/9k6 FSK, Digipeater		*
FossaSat-1b		.	436. 700/436. 800	436. 800	125k LoRa, 9k6GMSK, CW		f
FossaSat-2		.	436. 700/436. 900	436. 900	125k LoRa, 9k6GMSK, CW		f
GENESIS-L		145. 875	434. 203/436. 875	436. 875	50bps_ASK, CW	AM2SAT	f
GENESIS-N		145. 888	434. 216/436. 888	436. 888	50bps_ASK, CW	AM23AT	f
Hiapo		.	437. 225	.	9600bps FSK		f
Qubik-1		.	435. 240	.	9k6GFSK/GMSK/BPSK, 19k2/38k4QPSK		f
Qubik-2		.	435. 340	.	9k6GFSK/GMSK/BPSK, 19k2/38k4QPSK		f
Serenity		.	437. 100	.	4800bps AFSK		f
CUTE	49263	.	437. 250/2402. 000	.	9k6/19k2GMSK, 1MbpsBPSK	CUTE	*
CuPID	49264	.	400. 500	.	38k4 GFSK		i
Binar-1	49272	435. 810	435. 810/437. 292	.	1k2/19k2GMSK	VK6BUS	r
Maya-3	49273	145. 825	145. 825/437. 375	437. 375	4800bps GMSK, CW	MAYA3	r
Maya-4	49274	145. 825	145. 825/437. 375	437. 375	4800bps GMSK, CW	MAYA4	r
CUAVA-1	49275	145. 875/2404. 000	437. 075/2440. 00	.	9600bps GMSK		r
CUAVA-1	49275	5660. 000/76. 750GHz	5840. 000/76. 750GHz	.	9600bps GMSK		r
SPACEHAUC-1	49277	.	437. 500	.	9600bps FSK		r
TeikyoSat-4	49396	.	437. 450/5831. 000	437. 450	1k2AFSK/9k6GMSK/115k2FSK, CW	JS1YHH	*
NanoDragon	49398	.	437. 365	.	1200bps BPSK		u
Z-Sat	49399	435. 480	145. 875	145. 875	9k6GMSK FM, CW	JJ2YPO	*
KOSEN-1	49402	.	21. 125-21. 150	435. 525	1k2AFSK/9k6FSK, CW	JR5YGJ	*
CAS-9 (XW-3, HO-113)	50466	145. 855-145. 885	435. 195-435. 165	.	VHF/UHF SSB		*
CAS-9 (XW-3, HO-113)	50466	145. 985	435. 725	.	4k8 GMSK, image data	CAS9	*
CAS-9 (XW-3, HO-113)	50466	.	.	435. 575	UHF CW		*
BELIEFSAT-1		435. 825	145. 825	.	1200bps FM		u
PION-BR1	50984	.	437. 300	.	1200bps GFSK		i
SATLLA-2A	50984	.	437. 250	.	9600bps FSK, 62. 5k LoRa		u
SATLLA-2B	50986	.	437. 250	.	9600bps FSK, 62. 5k LoRa		u
Umbra-02	50986	.	2254. 000		FM		i
FossaSat-2E1	50985	.	401. 700	.	9600bps GFSK, 125k LoRa		*
FossaSat-2E2	50984	.	401. 700	.	9600bps GFSK, 125k LoRa		r
FossaSat-2E3	50990	.	401. 700	.	9600bps GFSK, 125k LoRa		*
FossaSat-2E4	50987	.	401. 700	.	9600bps GFSK, 125k LoRa		*
FossaSat-2E5	51001	.	401. 700	.	9600bps GFSK, 125k LoRa		*
FossaSat-2E6	50991	.	401. 700	.	9600bps GFSK, 125k LoRa		r
FossaSat-2E7	52778	.	401. 700	.	9600bps GFSK, 125k LoRa		*
FossaSat-2E8	52779	.	401. 700	.	9600bps GFSK, 125k LoRa		*

FossaSat-2E9	.		401. 700	.	9600bps GFSK, 125k	LoRa	*
FossaSat-2E10	.		401. 700	.	9600bps GFSK, 125k	LoRa	*
FossaSat-2E11	52750	.	401. 700	.	9600bps GFSK, 125k	LoRa	*
FossaSat-2E12	52773	.	401. 700	.	9600bps GFSK, 125k	LoRa	*
FossaSat-2E13	52776	.	401. 700	.	9600bps GFSK, 125k	LoRa	*
DEWASat-1	50989	.	401. 500	.	FM		i
Gossamer Piccolomini	50993	.	915. 000	.	FM		u
ION-SCV 004	50993	.	401. 415	.	1200bps FSK		i
SWIFT	50993	.	401. 025	.	FM		i
MDASat-1A	50995	.	401. 075	.	FM		i
MDASat-1B	51072	.	401. 075	.	FM		i
MDASat-1C	51038	.	401. 075	.	FM		i
ICEYE-X16	51008	.	401. 250	.	FM		i
Tevel-1	51013	145. 970	436. 400	.	9600bps BPSK, FM	T10FK	*
Tevel-2	51069	145. 970	436. 400	.	9600bps BPSK, FM	T2YRC	*
Tevel-3	50988	145. 970	436. 400	.	9600bps BPSK, FM	T3TYB	*
Tevel-4	51063	145. 970	436. 400	.	9600bps BPSK, FM	T4ATA	*
Tevel-5	50998	145. 970	436. 400	.	9600bps BPSK, FM	T5SNG	*
Tevel-6	50999	145. 970	436. 400	.	9600bps BPSK, FM	T6NZR	*
Tevel-7	51062	145. 970	436. 400	.	9600bps BPSK, FM	T7ADM	*
Tevel-8	50989	145. 970	436. 400	.	9600bps BPSK, FM	T8GBS	*
Grizu-263A	51025	.	435. 675/437. 190	.	2k4/4k8 FSK		*
SanoSat-1 (NO-116)	51031	.	436. 235	436. 235	500bps GFSK, RTTY, CW	AM9NPQ	*
IRIS-A	51044	.	435. 575/436. 915	.	9600bps GMSK, LoRa	BN010T	*
BRO-5	51061	.	401. 735	.	4800bps FSK		i
HYP50-1	51072	.	401. 500	.	FM		i
Challenger	51073	.	401. 300	.	2400bps AFSK		i
NuX-1	51073	.	437. 650	.	1200bps FSK		u
Delfi-PQ	51074	.	436. 650	.	1k2/2k4/19k2 FSK	DLF1PQ	*
UNICORN-1	51076	.	401. 820	.	9600bps FSK		u
UNICORN-2A	51073	.	401. 820	.	9600bps FSK		u
UNICORN-2B (NOOR-1A)	.	.	.	.			u
UNICORN-2C (NOOR-1B)	.	.	.	.			u
UNICORN-2D	51032	.	401. 820	.	9600bps FSK		u
UNICORN-2E	.	.	.	.			u
TartanArtibeus-1	51078	.	401. 820	.	9600bps FSK		i
Hades (SO-115)	51080	145. 925	436. 888	436. 888	1k2/2k4 AFSK, FM, APRS, CW	AM6SAT	i
EASAT-2 (SO-114)	51081	145. 875	436. 666	436. 666	1k2/2k4 AFSK, FM, APRS, CW	AM5SAT	i
Dodona	51084	.	401. 500	.	19200bps GFSK		u
VZLUsat-2	51085	.	437. 325	.	1k2/4k8/9k6 MSK		*
LabSat	51086	.	401. 100	.	FM		i
STORK-1	51087	.	401. 100	.	9600bps FSK		i
STORK-2	51088	.	401. 100	.	9600bps FSK		i
STORK-3	51098	.	401. 100	.	9600bps FSK		r
TechEdSat-13	51095	.	.	.			r
TechEdSat-14	.	.	.	.			u
PyCubed-1	.	.	437. 290	.	3000bps FSK, LoRa		u
GASPACS	51439	.	437. 365	.	9600bps 2GFSK	N7GAS	r
TARGIT	51440	.	437. 285	.	9k6 FSK/MSK/GFSK/GMSK	T4RG1T	r
FEES-2	51441	.	145. 000/437. 200	.	9600bps FSK, 125k	LoRa	r
DAILI	51443	.	914. 700	.	FM		n
Light-1	51509	.	437. 710	.	1k2 BPSK, 2k4 GMSK		r
GT-1	51510	.	437. 175	.	9600bps FSK	KK4UVG	r

BAMA-1			437. 460		2k4 2GFSK, 38k4 4GFSK	f
INCA			437. 125		0k2 MSK	f
Qubesat			437. 740		5k5 2FSK	f
R5-S1			.	.		f
INSPIRESat-1	51657	.	437. 500	.	9600bps GFSK BCT	*
INS-2TD	51658	.	435. 080	.	1200bps FSK INDUSR	*
NOUR-2	51954	.	431. 500/2258. 000	.	9600bps FSK	n
OreSat-0	52017	.	436. 500/2425. 000	436. 500	9k6FSK, 96kGMSK, 1M_DPSK KJ7SAT	*
KITSUNE	52148	.	437. 375	400. 960	4800bps GMSK, CW JG6YBW, JG6YNH	*
KITSUNE	52148	.	5840. 000	.	100k/5MbpsBPSK, 10/20MbpsQPSK	u
AlfaCrux	52160	437. 225	437. 100/437. 225	.	4800bps FSK, Digipeater	*
ARCSAT	52161	.	267. 300	.	FM	i
ION-SCV 005	52163	.	401. 415	.	1200bps FSK	*
BRO-7	52422	.	401. 735	.		*
BDSat	52175	.	145. 850/436. 025	436. 025	9600bps GFSK, CW OKOBDS	*
PlantSat	52188	.	437. 240	.	4800bps FSK	*
SUCHAI-3	52191	.	437. 250	.	4800bps FSK	*
SUCHAI-2	52192	.	437. 230	.	4800bps FSK	*
TRSI-2	52419	.	437. 075	.	2400bps BPSK	i
TRSI-3	52420	.	437. 075	437. 075	FSK, CW	*
BRO-6	52422	.	401. 735	.		*
PLANETUM-1	52738	145. 925	436. 680	436. 680	9k6GFSK, CW, Digipeater OKOPLA	*
Connecta-T1. 1	52739	.	401. 525	.	9600bps GMSK CONT11	*
Centauri-5	52742	.	.	.		u
SPiN-1	52743	.	401. 000	.	9600bps GFSK	i
Umbra-03	52753	.	2254. 000	.	FM	i
ION-SCV 006	52761	.	401. 415	.	1200bps FSK	i
SHERPA-AC1	52763	.	.	400. 481	CW	*
FORESAIL-1	52765	.	437. 125	437. 125	1k2/4k8/9k6 MSK, CW OH2FIS	i
Platform-1	52770	.	400. 360	.	2k4/4k8/9k6 GFSK SS2141	*
OMNI-L2	52771	.	401. 050	.	FM	i
CPOD-FLT1	52772	.	401. 180	.	FM	i
SBUDNIC	52774	.	435. 000	.	LoRa	i
VEERY-FS1	52777	.	137. 950	.	FM	i
STEP CubeLab-II	52897	.	437. 485	.	9600bps GMSK STEP2	*
RANDEV	52898	.	436. 030	.	1k2/9k6 BPSK RANDEV	*
SNUGLITE-II	52899	.	436. 490/2405. 000	.	1k2 BPSK, 9k6 GMSK DSODH	i
MIMAN	52900	.	436. 500	.	2k4/4k8 FSK	*
CTIM-FD	52950	.	437. 250	.	9600bps GFSK	*
GreenCube (IO-117)	53106	435. 310	435. 310	.	0k3/1k2/2k4FSK, Digipeater	*
AstroBio	53107	435. 600	435. 600/437. 425	.	9600bps FSK, Digipeater IUOSIA	i
TRISAT-R	53108	.	435. 613	.	1000bps FSK	*
ROBUSTA-1F (MTCube-2)	53109	.	436. 750	.	1k2AFSK, 2k4/9k6GMSK FX6FRA	i
ALPHA	53110	.	436. 500	.	9600bps FSK	i
ROBUSTA-1D (CELESTA)	53111	.	436. 500	.	1k2AFSK, 2k4/9k6GMSK FX6FRB	i
CSS (WENTIAN)	53239	.	.	.		u
SWSU-55 No1 (YuZGU- 5)	53309	.	437. 050/437. 050	.	1k145 AFSK, SSTV, AUDIO RS10S	r
SWSU-55 No2 (YuZGU- 6)	53312	.	437. 050/437. 062	.	1k145 AFSK, SSTV, AUDIO RS11S	r
SWSU-55 No3 (YuZGU- 7)	53313	.	437. 050/437. 075	.	1k145 AFSK, SSTV, AUDIO RS1S	r
SWSU-55 No4 (YuZGU- 8)	53306	.	437. 050/437. 082	.	1k145 AFSK, SSTV, AUDIO RS2S	r
SWSU-55 No5 (YuZGU- 9)	53310	.	437. 050/437. 100	.	1k145 AFSK, SSTV, AUDIO RS3S	r
SWSU-55 No6 (YuZGU- 10)	53321	.	437. 050/437. 087	.	1k145 AFSK, SSTV, AUDIO RS4S	r
SWSU-55 No7 (YuZGU- 11)	53322	.	437. 050/437. 1125	.	1k145 AFSK, SSTV, AUDIO RS5S	r

SWSU-55 No8 (YuZGU- 12)	53308	.	437. 050/437. 000	.	1k145 AFSK, SSTV, AUDIO	RS6S	r
Tsiolkovsky_Ryazan-1	53312	.	437. 050/437. 025	.	1k145 AFSK, SSTV, AUDIO	RS9S	r
Tsiolkovsky_Ryazan-2	53313	.	437. 050/437. 0125	.	1k145 AFSK, SSTV, AUDIO	RS12S	r
AzaadiSAT	.	.	437. 400	.	1200bps FSK, SSTV, LoRa		r
Khayyam	53370	.	.	.			u
Polytech_Universe-1	53372	.	436. 896/436. 996	.	125k LoRa		u
Polytech_Universe-2	53371	.	437. 476/437. 576	.	125k LoRa		u
SXC3-212 (MGU, MONITOR-1)	53374	.	437. 550	.	2400bps GMSK USP	RS32S	*
SXC3-213 (HSE-AIS, CUBESX-2)	53383	.	435. 570	.	2400bps GMSK USP	RS21S	*
SXC3-214 (MIET-AIS)	53377	.	437. 900	.	2400bps GMSK USP	RS28S	*
SXC3-215 (Vizard)	53386	.	437. 800	.	2400bps GMSK USP	RS33S	*
SXC3-216 (UTMN)	53376	.	435. 670	.	2400bps GMSK USP	RS23S	*
SXC3-217 (Siren)	53384	.	437. 750	.	2400bps GMSK USP	RS30S	*
SXC3-218 (KuzSTU, KUZBASS)	53375	.	437. 700	.	2400bps GMSK USP	RS34S	*
SXC3-219 (Medex, ISOI)	53381	.	437. 650	.	2400bps GMSK USP	RS19S	*
SXC3-2110 (Voenmeh)	53373	.	436. 050	.	2400bps GMSK USP	RS29S	*
SXC3-2111 (SibSU, RESHUCUBE)	53382	.	435. 380	.	2400bps GMSK USP	RS8S	*
Skoltech-B1	53379	.	435. 000/435. 600	.	9600bps GMSK USP	ROAJU-1	*
Skoltech-B2	53380	.	435. 000/435. 600	.	9600bps GMSK USP	ROAJU-1	*
Geoscan-Edelveis	53385	.	436. 200	.	9600bps GFSK USP	RS20S	*
KAI-1	53378	.	435. 665/435. 765	.	1k2AFSK, 2k4FSK	RS26S	*
HSU-SAT1	53462	.	437. 280	437. 280	1k2AFSK, 9k6GMSK, SSTV, CW	JS1YHS	r
FUTABA	53463	.	437. 375	437. 375	1200bps AFSK, CW	JG6YBW	r
TUMnanoSAT	53464	.	436. 680	.	9600bps GMSK	ER1TUM	r
CapSat-1	.	.	.	.			u
CLICK-A	.	.	.	.			u
D3	53769	.	437. 080/2432. 000	.	1k2AFSK, 9k6GMSK		u
BeaverCube	53770	.	401. 500	.	FSK		i
JAGSAT-1	53771	.	437. 325	.	9600bps 2GFSK		r
BlueWalker-3	53807	.	437. 500/2210. 000	.	2k4/9k6 FSK		*
SelfieSat	53951	.	437. 500	.	9600bps 2FSK	WJ2XOX	*
GENESIS-G (ASTROLAND-1)	145. 875	.	436. 888	436. 888	1k2/2k4 AFSK, FM, APRS, CW	AM2SAT	r
GENESIS-J (ASTROLAND-2)	145. 925	.	436. 666	436. 666	1k2/2k4 AFSK, FM, APRS, SSTV, CW	AM3SAT	r
Qubik-3	.	.	435. 240	.	9600bps GFSK/BPSK		r
Qubik-4	.	.	435. 240	.	9600bps GFSK/BPSK		r
FossaSat-1b2	.	.	436. 700/436. 800	436. 800	125k LoRa/9k6GMSK, CW		r
Serenity-2	.	.	437. 100	.	4800bps AFSK		r
MAGNARO	.	.	145. 850/436. 325	436. 325	1k2AFSK, 9k6GMSK, 19k2GMSK, CW		f
MITSUBA	.	.	437. 375	437. 375	1k2AFSK, CW		f
KOSEN-2	.	.	436. 750	436. 750	1k2AFSK, 9k6GMSK, CW		f
WASEDA-SAT-ZERO	.	.	437. 200	437. 200	1k2FSK, CW		f
FSI-SAT	.	.	437. 175	437. 175	1k2AFSK, 9k6GMSK, SSTV, CW		f
OMOTENASHI	.	.	437. 310/437. 410	.	FM, PSK31, PCM-PSK/PM		f
TechEdSat-15	53957	.	.	.			r
Qubik-3	53958	.	435. 240	.	9600bps GFSK/BPSK		r
Qubik-4	53958	.	435. 240	.	9600bps GFSK/BPSK		r
ARGOS-4	54023	.	465. 988/1. 703GHz	.	QPSK		*
Skif-D	54153	.	435. 566	.	FM		u
CSS (MENG TIAN)	54216	.	.	.			u
NOAA-21 (JPSS-2)	54234	.	.	.			w
Thybolt-1	54363	.	436. 175	435. 360	4k8/9k6 FSK, CW	THY01	*
Thybolt-2	54364	.	436. 175	435. 360	4k8/9k6 FSK, CW	THY02	*
INS-2B (BhutanSat)	54365	.	435. 080	.	1200bps FSK	INDUSR	*

Astrocast-0304	54367	.	1. 531GHz	.	400bps QPSK		i
Taka (BIRDS-5)	54534	.	145. 825/435. 375	435. 375	4800bps GMSK, APRS, CW		i
PearlAfricaSat-1 (BIRDS-5)	54535	.	145. 825/435. 375	435. 375	4800bps GMSK, APRS, CW		i
ZimSat-1 (BIRDS-5)	54536	.	145. 825/435. 375	435. 375	4800bps GMSK, APRS, CW		i
SpaceTuna-1	54537	.	.	.	Blue LED		u
CAS-5A (FO-118)	54684	145. 820	435. 540	.	VHF/UHF SSB, bandwidth 30kHz		*
CAS-5A (FO-118)	54684	145. 925	435. 600	.	VHF/UHF FM , bandwidth 15kHz		*
CAS-5A (FO-118)	54684	145. 975	435. 650	.	4k8 GMSK, image data	CAS5A	*
CAS-5A (FO-118)	54684	.	.	435. 570	UHF CW	BJ1S0	*
CAS-5A (FO-118)	54684	21. 400	29. 490	.	HF/HF SSB, bandwidth 30kHz		u
CAS-5A (FO-118)	54684	21. 435	435. 505	.	HF/UHF SSB, bandwidth 15kHz		u
CAS-5A (FO-118)	54684	.	.	29. 465	HF CW		u
CAS-10 (XW-4, HO-119)	54816	145. 870	435. 180	.	VHF/UHF SSB, bandwidth 30kHz		r
CAS-10 (XW-4, HO-119)	54816	.	435. 725	.	4K8 GMSK telemetry	CAS10	r
CAS-10 (XW-4, HO-119)	54816	.	.	435. 575	DTMF_camera CW		r
Star-Vibe	55009	.	437. 025	.	4k8/9k6 GMSK	OM9GRB	*
Sapling-1	55009	.	437. 400	.	LoRa		u
BRO-8	55011	.	401. 735	.	9600bps FSK		*
Connecta-T1. 2	55012	.	401. 525	.	4800bps GFSK	CONT12	*
Umbra-05	55036	.	2254. 000	.	FM		u
Umbra-04	55050	.	2254. 000	.	FM		u
ION-SCV 008	55051	.	401. 415	.	1200bps FSK		*
EOSSAT-1	55053	.	.	.			u
ION-SCV 007	55060	.	401. 415	.	1200bps FSK		*
PolyITAN-HP-30 (QBUA01)		.	436. 600	.	9600bps BPSK		u
Umbra-05	55036	.	2254. 000	.	FM		u
Umbra-04	55050	.	2254. 000	.	FM		u
Platform-2	55067	.	401. 360	.	4800bps GFSK		i
NSLSat-2	55067	.	401. 500/2245. 000	.	PSK31, FM		u
Tausat-2	55073	.	436. 400	.	9600bps BPSK	TAUSAT-2	*
BDSat-2	55098	.	145. 850/436. 025	436. 025	9600bps GFSK, CW	OKOBDT	*
KuwaitSat-1	55103	.	436. 980	.	38k4FSK, LoRa		i
SharjahSat-1	55104	.	437. 325/2405. 000	.	256/1k2/9k6GMSK	A60UOS	*
MARIO	55123	.	437. 485	.	9600bps GMSK	WL2XYF	*
NUTSAT	55124	.	436. 850	.	1k2AFSK, 9k6GFSK	BNOUT	*
LORIS	55125	.	437. 165	.	9k6/19k2 GMSK		i
ORCASAT	55126	.	437. 060	.	10. 17kbit/s FSK		*
DANTESAT	55127	.	437. 600	.	9600bps FSK		r
TJREVERB	55128	145. 825	145. 825	.	1k2AFSK, APRS		i
SPORT	55129	.	400. 860	.	1k2/9k6 BPSK	SPORT	r
PETITSAT	55130	.	2273. 000	.	FM		i
SuryaSatellite-1	55181	145. 825	145. 825	435. 825	1k2AFSK, APRS, CW	YH1SSS	u
OPTIMAL-1		.	.	.			n
HSKSAT	55182	.	437. 275/2400. 300	.	1k2AFSK, 9k6GMSK	JJ2YSW	*
ION-SCV 009	55441	.	401. 415	.	1200bps FSK		i
EOS-7	55562	.	145. 825	.	1k2AFSK, APRS	A55BTN	*
AzaadiSAT-2	55563	.	437. 400	.	1200bps FSK, LoRa	AZDSAT	i
DEWASat-2	56180	.	401. 100	.	2k4 FSK		*
KILICSAT	56181	.	436. 900	.	9k6 GMSK	YM2RKS	*
Lemur-2 (OnReflection 164)	56182	.	.	.			u
Platform-3 (Sateliot-0)	56183	.	401. 360	.	4k8 GMSK		u
SSS-2B	56184	.	435. 800	.	9k6 GMSK	YM2RTU	*
BRO-9	56185	.	401. 735	.	4k8 FSK		*

Lemur-2 (Spacegus)	56187	.	402. 790	.			u
CIRBE	56188	.	437. 250/2402. 000	.	9k6/19k2 GFSK	CIRBE	*
Umbra-06	56189	.	2254. 000		FM		u
ION-SCV 010	56192	.	401. 415	.	1k2 FSK		*
Vigoride-6	56196	.	400. 500/400. 524	.	38k4 FSK		u
FacSat-2	56205	.	437. 350	.	9k6 GMSK		u
Lemur-2 (Romeo-n-Leo 165)	56206	.	402. 788	.	FM		u
Taifa-1	56209	.	400. 360	.	9k6 GMSK		u
INSPIRESat-7	56211	145. 830/145. 970	435. 200/437. 410	.	9k6 BPSK, FM	UVSQPL	*
RoseyCubesat-1	56212	145. 850	436. 825	.	1k2/9k6 BPSK	ROSEY	*
Sapling-2	56214	.	437. 400	.	LoRa	KN6HCC	*
Connecta-T2. 1	56210	.	401. 525	.	9k6 GMSK	CONT21	*
IRIS-C	56221	145. 860	436. 915	.	9600bps BPSK, Digipeater	BNOIRC	*
SATLLA-2I	56227	.	437. 250	.	LoRa		u
UNICORN-2I	56230	.	401. 820	.	9k6_FSK		i
Istanbul-1	56231	.	.	.			u
ARKSAT-1	56311	.	435. 450	.	9600bps FSK		r
AuroraSat	56312	.	437. 875/2428. 000	.	1k2/9k6 FSK		i
ExAlta-2	56313	.	437. 875/2428. 000	.	9600bps FSK		r
LightCube	56314	.	437. 175	.	300, 1k2 AFSK		r
NEUDOSE	56315	.	436. 050	.	9600bps GFSK	VE3NEU	i
YukonSat	56316	.	437. 875/2428. 000	.	1k2/9k6 FSK		i
SNoPI	.	.	.	.	P-band		n
SNIFE-A	56749	.	435. 450	.	4800bps MSK_AX. 100_Mode 5		*
SNIFE-B	56745	.	436. 000	.	4800bps MSK_AX. 100_Mode 5		*
SNIFE-C	56746	.	436. 950	.	4800bps MSK_AX. 100_Mode 5		i
SNIFE-D	56744	.	437. 800	.	4800bps MSK_AX. 100_Mode 5		*
FossaSat-FEROX 14~17	.	.	401. 700	.	LoRa		i
MDQSAT-1C/1D	.	.	436. 900	.	LoRa		u
Otter-Pup	56933	.	400. 500	.	38k4 GFSK		u
ION-SCV 011	56957	.	401. 415	.	1k2_FSK AX. 100 Mode_5		*
Tomorrow-R2	56959	.	400. 500	.	38k4 GFSK		u
SpeiSat	56991	.	437. 500	.	9k6 GMSK	SPEIST	*
UreSat-1 (Hades-B, SO-120)	56992	145. 925/145. 975	436. 888	436. 888	1k2/2k4 AFSK, APRS, FM, CW	AO4URE	u
MRC-100	56993	.	436. 720	.	1k25/2k5/5k/12k5 GMSK		*
ROM-2 (Hades-C)	56994	.	436. 235	.	GPSK		i
METEOR-M N2-3	57166	.	137. 100/137. 900	.	72K/80K LRPT		w
ASRTU-1	.	.	435. 400/436. 210/10460. 000		9k6BPSK NBFM QSPK		u
Sirius-SINP-3U	57170	.	436. 550	.	1k2AFSK/4k8GMSK		i
ReshUCube-2	57171	.	435. 640/435. 742/436. 675		9k6 FSK	RS37S	u
UmKA-1	57172	.	435. 825/437. 625	.	2k4/4k8/9k6 GMSK_USP	RS40S	*
SamSat-ION	57173	.	437. 400	437. 400	1k2/2k4 FSK, CW	RS36S	*
CubeBel-2 (BSUSat-2)	57175	436. 200	436. 990	.	4k8/9k6 GMSK, Digipeater	EU11S	*
Zorkiy-2M	57177	.	401. 480	.	2k4 GMSK_USP	ZRK2B	*
CubeSX-HSE-3	57178	.	436. 570	.	2k4-9k6 GMSK_USP	RS42S	u
Norby-2	57179	.	436. 500	.	Lora		*
Monitor-3	57180	.	435. 290	.	2k4-9k6 GMSK_USP	RS58S	*
Monitor-4	57182	.	436. 080	.	2k4-9k6 GMSK_USP	RS57S	u
Monitor-2	57184	.	435. 000/435. 815/435. 915		1k2 AFSK/9k6 FSK	RS39S	u
CSTP-1. 2	57186	.	436. 270	.	LoRa		*
Svyatobor-1	57187	.	437. 875	.	2k4-9k6 GMSK_USP		u
Hors-1 (Khors-1)	57188	.	435. 300	.	9k6 FSK		u
VIZARD-meteo	57189	.	437. 825	.	2k4-9k6 GMSK_USP	RS38S	*

Nanozond-1	57190	.	437. 000	.	2k4-9k6 GMSK_USP	RS49S	*
Polytech-Universe-3	57191	.	435. 415	.	LoRa/FSK	RS46S	*
Avion-Kaluga-650	57195	.	435. 615/435. 715	.	9k6 DOKA		u
Hors-2 (Khors-2)	57196	.	435. 500	.	9k6 FSK		u
A-SEANSAT-PG1	57197	.	401. 500/401. 523/401. 634	.	2k4 GMSK_USP, FM	ASAT1S	*
Yarilo-3	57198	.	435. 450	.	9k6 FSK		u
Yarilo-4	57200	.	435. 400/435. 720	.	9k6 FSK, FM		i
Druzhba-ATURK	57200	.	.	.			u
SITRO-AIS-5	57176	.	401. 134	.	2k4 GMSK_USP	SC3227	*
SITRO-AIS-6	57192	.	401. 170	.	2k4 GMSK_USP	SC3228	*
SITRO-AIS-7	57194	.	401. 200	.	2k4 GMSK_USP	SC3229	*
SITRO-AIS-8	57193	.	401. 230	.	2k4 GMSK_USP	SC2210	*
SITRO-AIS-9	57201	.	401. 260	.	2k4 GMSK_USP	SC2211	*
SITRO-AIS-10	57199	.	401. 290	.	2k4 GMSK_USP	SC2212	*
SITRO-AIS-11	57208	.	401. 320	.	2k4 GMSK_USP	SC2213	*
SITRO-AIS-12	57204	.	401. 350	.	2k4 GMSK_USP	SC2214	*
CSTP-1. 1	57202	.	436. 075	.	LoRa		*
UTMN-2	57203	.	435. 485/436. 125	.	2k4-9k6 GMSK_USP	RS27S	*
ArcCube-01	57205	.	437. 600	.	2k4-9k6 GMSK_USP	RS25S	*
AHMAT-1	57208	.	437. 050	.	1145baudAFSK	RS41S	u
KuzGTU-1	57217	.	437. 100	.	2k4-9k6 GMSK_USP	RS47S	*
SC-ODIN	57312	436. 525	436. 525	.	GMSK		i
RadSat-SK	57313	145. 830	435. 400	.	9k6 GMSK		i
Ukpik-1	57314	437. 160	437. 160	.	9k6 2GFSK		i
Iris	57315	436. 650	436. 250	.			i
Essence	57316	437. 325	435. 775	.			i
Moonlighter	57317	914. 700/2075. 000	914. 700/2225. 000	.			i
StratoSat-TK1	57167	.	435. 870	.	9k6 GMSK	RS52S	*
StratoSat-TK1-A	57322	.	.	435. 060	CW 20	RS45S	u
StratoSat-TK1-B	57323	.	.	.			u
StratoSat-TK1-C	57324	.	.	.			u
StratoSat-TK1-D	57325	.	.	.			u
StratoSat-TK1-E	57326	.	.	.			u
StratoSat-TK1-F	57327	.	.	.			u
StratoSat-TK1 picosat-B	57323	.	436. 260	.	LoRa	RS52SB	*
StratoSat-TK1 picosat-D	57167	.	436. 260	.	LoRa	RS52SD	u
StratoSat-TK1 picosat-E	57327	.	436. 260	.	LoRa	RS52SE	*
StratoSat-TK1 picosat-G	57168	.	436. 260	.	LoRa	RS52SG	u
StratoSat-TK1 picosat-V	57322	.	436. 260	.	LoRa	RS52SV	*
Maya-5	57420	145. 825	145. 825/437. 375	437. 325	1k2APRS, 4k8GMSK, CW		*
Maya-6	57419	145. 825	145. 825/437. 375	437. 325	1k2APRS, 4k8GMSK, CW		*
SCOOB-2	57481	.	437. 500	.	9600bps GFSK		*
VELOX-AM	57482	.	437. 125	.	4800bps FSK		*
ARCADE (INSPIRESat-4)	57485	.	437. 760	.	9600bps GFSK		i
GALASSIA-2	57486	.	436. 400	.	1200bps FSK		*
NuLiON	57487	.	401. 500	.	1200bps FSK		*
NOUR-3	57962	.	401. 500/2258. 000	.	9600bps FSK		n
ESTCube-2		.	435. 800	.	9600bps GFSK	ES5EC	r
ANSER-A (ANSER Leader)		.	401. 850	.	FM		r
ANSER-B (ANSER Follower-1)	58018	.	401. 850	.	FM		u
ANSER-C (ANSER Follower-2)	58019	.	401. 850	.	FM		u
N3SS	58020	.	.	.			u
CSC-1	58022	.	401. 175	.	1200bps BPSK	CSC1	*

CSC-2	58021	.	401. 250	.	1200bps BPSK	CSC2	*
PRETTY	58023	.	137. 500/137. 740	.	38k4 GFSK		u
MACSAT (Finch-1)	58024	.	401. 050	.			u
Parus-MGTU	58173	.	437. 200	.	9k6/12k0 FSK		i
AMAN-1		.	401. 100	.	9600bps FSK		u
ATHER-1/2		.	.	.			u
BARRY-1		.	401. 500/2245. 000	.	9600bps GMSK	B12	*
BRO-10		.	401. 735/2260. 500	.	9600bps FSK		*
BRO-11		.	401. 735/2260. 500	.	9600bps FSK		*
Connecta-T3. 1		.	401. 525/401. 510/2071. 000/2240. 000		4k8/9k6 GMSK	CONT31	*
Connecta-T3. 2		.	401. 525/401. 540/2071. 000/2240. 000		4k8/9k6 GMSK	CONT32	*
DJIBOUTI-1A		.	401. 800	.	2400bps FSK	DJIB1A	*
ELLIOT		.	.	.			u
EPICHyper-3		.	.	.			u
FalconSAT-X		.	.	.			u
GENMAT-1		.	2245. 000	.	57k0 GFSK		u
HADES-D		.	436. 666	.			u
HELLO-TEST-1		.	401. 075/2262. 500	.	9600bps FSK		u
HELLO-TEST-2		.	401. 075/2262. 500	.	9600bps FSK		u
HERON-Mk-II		.	437. 120	.	9600bps GFSK		u
ICEYE		.	.	.			u
ICEYEX		.	.	.	FM		u
Impulse-1 (LEO Express-1)		.	402. 680	.	FM		u
INTUITION-1		.	401. 400	.			u
ION-SCV 013		.	401. 415/2265. 500	.	1200bps FSK		*
IRIS-C2		.	400. 455/2254. 000	.	9600bps BPSK	BNOTR1	*
JINJUSAT-1		.	435. 185	.	9600bps BPSK		i
JUBA		.	.	.			u
KAFASAT		.	435. 835/2404. 400	.	1200bps FSK	KAFSAT-1	*
LEMUR-2 MANGO-2A		.	402. 790/2022. 500/2200. 500/2440. 000		GMSK		u
LEMUR-2 MANGO-2B		.	402. 790/2022. 500/2200. 500/2440. 000		GMSK		u
LEO Express-1		.	.	.			u
MANTIS		.	.	.			u
MDQUBESAT-2		.	.	.			u
NINJASAT		.	402. 000	.	2400bps GMSK		i
Observer-1A		.	.	.			u
OMNI-LER1		.	2245. 000	.	FM		u
OrbAstro-PC1/TR1		.	.	.			u
OSW-CAZORLA		.	2220. 000	.			u
OUTPOST-MISSION-2		.	401. 250/401. 500	.	FM		u
PEARL-1C		.	435. 310	.	9600bps GMSK	PEARLC	*
PEARL-1H		.	435. 390	.	9600bps GMSK	PEARLH	*
Pelican-1		.	.	.			u
PICACHO		.	401. 500	.	9600bps GMSK		i
PLATERO		.	.	.			u
PLATFORM-5		.	401. 360/2277. 500	.	4800bps GMSK	PL0005	*
PROTOMETHEE-1		.	401. 050/401. 450/402. 925/2220. 000/2262. 000/2280. 700		FM		u
ROM-3		.	436. 235	.			u
SPACEANT-D		.	437. 425	.			u
SPACEVAN		.	2271. 750/2288. 500	.	FM		u
SPIP		.	.	.			u
SUPERDOVE		.	2246. 000	.	FM		u
Tiger-5/6		.	.	.			u

Time-We'll-Tell	.	.	.			u
UMBRA-07	.	2254.000	.	FM		u
UMBRA-08	.	2254.000	.	FM		u
VANGUARD	.	.	.			u
Veronika	.	145.925/436.680	.	9600bps GFSK	OM9VER	*
Ymir-1	.	.	.			u
EIRSAT-1	.	437.100	.	9600bps GMSK		t
CatSat	.	437.185/10470.000	.	9k6/38k4GMSK		t
KUbeSat-1	.	437.085	.	9600bps GMSK		t
MESAT-1	145.910-145.940	435.810-435.840	435.800	1200bps BPSK, SSB		t
Owlsat	.	436.975	.	9600bps GFSK		t
Serenity-3	.	437.100	.	4800bps FM		t
SOC-i	.	437.125	.	4800bps GMSK		t
TechEdSat-11	.	437.465	.	1200bps FM		t
TechEdSat-12	.	.	.			t

CAS to be launched

CAS-5B	.	.	435. 720	UHF CW	t
CAS-7A	21. 245-21. 275	29. 465-29. 435	.	HF/HF SSB	t
CAS-7A	.	.	29. 425	HF CW	t
CAS-7A	21. 3125-21. 3275	435. 3725-435. 3575	.	HF/UHF SSB	t
CAS-7A	.	.	435. 430	UHF CW	t
CAS-7A	145. 865-145. 895	435. 415-435. 385	.	VHF/UHF SSB	t
CAS-7A	.	435. 480	.	4k8 9k6 GMSK telemetry	t
CAS-7A	.	10460. 000	.	1 Mbps GMSK image data	t
CAS-8A	145. 805-145. 835	435. 540-435. 510	.	VHF/UHF SSB	t
CAS-8A	.	.	435. 575	UHF CW	t
CAS-8A	.	435. 735	.	4K8 9K6 GMSK telemetry	t
CAS-8A	.	2405. 100	.	4K8 9K6 GMSK telemetry	t
CAS-8A	.	2405. 100	.	192kbps GMSK image data	t
CAS-8A	.	2405. 300	.	Inter-satellite link	t
CAS-8B	145. 840-145. 870	435. 625-435. 595	.	VHF/UHF SSB	t
CAS-8B	.	.	435. 580	UHF CW	t
CAS-8B	.	435. 750	.	4K8 9K6 GMSK telemetry	t
CAS-8B	.	2405. 100	.	4K8 9K6 GMSK telemetry	t
CAS-8B	.	2405. 100	.	192kbps GMSK image data	t
CAS-8B	.	2405. 300	.	Inter-satellite link	t
CAS-8C	145. 875-145. 905	435. 660-435. 630	.	VHF/UHF SSB	t
CAS-8C	.	.	435. 585	UHF CW	t
CAS-8C	.	435. 775	.	4K8 9K6 GMSK telemetry	t
CAS-8C	.	2405. 300	.	Inter-satellite link	t
CAS-8D	145. 910-145. 940	435. 695-435. 665	.	VHF/UHF SSB	t
CAS-8D	.	.	435. 590	UHF CW	t
CAS-8D	.	435. 800	.	4K8 9K6 GMSK telemetry	t
CAS-8D	.	2405. 300	.	Inter-satellite link	t

RS series

Satellite	Number	Launch	Downlink	Active(*), Inactive(i), Reentered(r)	
RS-1 (Radio Sputnik 1)	11085	26Oct1978	.	Non-Operational	i
RS-2 (Radio Sputnik 2)	11086	26Oct1978	.	Non-Operational	i
RS-3 (Radio Sputnik 3)	12997	17Dec1981	.	Non-Operational	i
RS-4 (Radio Sputnik 4)	13000	17Dec1981	.	Non-Operational	i
RS-5 (Radio Sputnik 5)	12999	17Dec1981	.	Non-Operational	i
RS-6 (Radio Sputnik 6)	13002	17Dec1981	.	Non-Operational	i
RS-7 (Radio Sputnik 7)	13001	17Dec1981	.	Non-Operational	i
RS-8 (Radio Sputnik 8)	12998	17Dec1981	.	Non-Operational	i
RS-9 (Radio Sputnik 9)			.	Project Cancel	c
RS-10 (COSMOS 1861)	18129	23Jun1987	29. 357/29. 403	Non-Operational	i
RS-11 (COSMOS 1861)	18129	23Jun1987	29. 357/29. 403	Non-Operational	i
RS-12 (COSMOS 2123)	21089	05Feb1991	29. 408/29. 454	Non-Operational	i
RS-13 (COSMOS 2123)	21089	05Feb1991	21. 138/29. 504	Non-Operational	i
RS-14 (Informator-1)	21087	29Jan1991	145. 822/145948	Non-Operational	i
RS-15 (Radio Rosto)	23439	26Dec1994	29. 3525/29. 3987	Unknown	u
RS-16 (Mozhayets-2)	24744	04Mar1997	435. 510	Non-Operational	r
RS-17 (Sputnik 40)	24958	05Oct1997	145. 820	Non-Operational	r
RS-18 (Sputnik 41)	25533	25Oct1998	145. 812	Non-Operational	r
RS-19 (Sputnik 99)	25685	16Apr1998	145. 815	Non-Operational	r
RS-20 (Mozhayets-3)	27560	28Nov2002	145. 828/435. 319	Non-Operational	r
RS-21 (Kolibri-2000)	27394	26Nov2001	145. 825	Non-Operational	r
RS-22 (Mozhayets-4)	27939	27Sep2003	432. 098/435. 352	Unknown	u
RS-23 (Tatyana)	28523	20Jan2005	435. 215/435. 315	Non-Operational	i
RS-24			.	Unknown	u
RS-25 (Mozhayets-5)	28898	27Oct2005	435. 325	Unknown	u
RS-26 (Sinah-1)	28893	05Oct2005	.	Engineering	i
RS-27 (Baumanets-1)		26Jul2006	.	Launch failed	f
RS-28 (UgatuSat)	35869	17Sep2009	435. 264	Non-Operational	i
RS-29 (Sterkh)			.	ID reserved	i
RS-30 (Yubileiniy-1)	32953	23May2008	435. 215/435. 315	Non-Operational	i
RS-31 to RS-37			.	for ORBCOMM	i
RS-38 (Tatyana-2)	35868	17Sep2009	435. 490	Non-Operational	i
RS-39 (Chibis-M)	38051	25Jan2012	435. 215/435. 315	Non-Operational	r
RS-40 (Yubileyny-2, MiR)	38735	28Jul2012	435. 365	Non-Operational	i
RS-41 (AIST-1)	39492	28Dec2013	435. 265	Non-Operational	i
RS-42			.	Unknown	u
RS-43 (AIST-2)	39133	19Apr2013	435. 215/435. 265	Non-Operational	i
RS-44 (DOSAAF-85)	44909	26Dec2019	435. 605/435. 640	Operational	*
RS-45			.	Unknown	u
RS-46 (COSMOS-2491)	39497	25Dec2013	435. 465/435. 565	Non-Operational	i
RS-47 (COSMOS-2499)	39765	23May2014	435. 465/435. 565	Non-Operational	i
RS-48 (AIST-2D)	41465	28Apr2016	435. 315	Non-Operational	i